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A Catalogue of the Declinations of 532 Stars culminating near the Zenith of the Observatory of Harvard College, Cambridge.

By T. H. SAFFORD.

(Communicated September 11, 1860, by G. P. BOND.)

THE Catalogue here communicated was originally prepared at the Observatory of Harvard College, at the request of Captain George G. Meade, of the United States Topographical Engineers, for the use of the Survey of the North and Northwest Lakes, in the determinations of latitudes with the zenith telescope, according to the method proposed by Talcott. The method requires for its successful application the combination of pairs of stars distant generally less than 10° from the zenith of the place of observation, and having accurately determined positions. The present collection has been the result of a careful discussion of the positions of the stars included, as given by the best existing authorities,* and is intended to facilitate the determinations of latitudes at stations near the northern boundary of the United States.

G. P. BOND,

Director of the Observatory of Harvard College.

The following notation has been employed for the Catalogues used in this discussion :—

- M. *Die Eigenbewegung der Fixsterne in ihrer Beziehung zum Gesamtsystem, von J. H. Mädler. Dorpat. 1856. 4to.*
- Br. *Fundamenta Astronomiæ pro Anno 1755, deducta ex Observationibus Viri incomparabilis James Bradley in Specula astronomica Grenovicensi per Annos 1750–1762 institutis Auctore F. W. Bessel. Regiomonti, 1818. Fol.*
- Fed. *Positions moyennes pour l'époque de 1790.0 des étoiles circompolaires dont les observations ont été publiées par Jérôme Lalande, dans les mémoires de l'acadé-*

* The Armagh "Places of 5345 Stars" recently published, was not received in season to be included among the authorities.

- mie de Paris de 1789 et 1790. Par Ivan Fedorenko. St. Pétersbourg. 1854. 4to.*
- L.** *A Catalogue of those Stars in the Histoire Céleste Française of Jérôme de la Lande, for which Tables of Reduction to the Epoch 1800 have been published by Professor Schumacher. Reduced under the immediate Superintendence of the late Francis Baily, Esq. London. 1847. 4to.*
- Gr.** *A Catalogue of Circumpolar Stars, deduced from the Observations of Stephen Groombridge, Esq., edited by G. B. Airy, Esq., A. M., Astronomer Royal. 1838. 4to.*
- Str.** *Stellarum Fixarum imprimis duplicium et multiplicium Positiones mediæ pro Epochâ 1830.0 deducta ex Observationibus Meridianis Annis 1822 ad 1843 in Specula Dorpatensi institutis; Auctore F. G. W. Struve. Petropoli. 1852. Fol.*
- T.** *A general Catalogue of the Principal Fixed Stars, from Observations made at the Honorable the East India Company's Observatory at Madras, in the Years 1830 – 1843, by Thomas Glanville Taylor, Esq., F.R.S., F.R.A.S., Astronomer to the Honorable Company. Madras. 1844. 4to.*
- R.** *Mittlere Oerter von 12000 Fix-sternen für den Anfang von 1836, abgeleitet aus den Beobachtungen auf der Hamburger Sternwarte von Carl Rümker. Hamburg. 1843. Oblong 4to.*
- Arg.** *DLX. Stellarum Fixarum Positiones mediæ ineunte Anno 1830, Auctore Argelandro. Helsingforsiae. 1843. 4to.*
- Pi.** *Præcipuarum Stellarum inerrantium Positiones mediæ ineunte Sæculo XIX. Auctore Piazzio. Panormi. 4to. 1814.*
- Ai.** *Catalogue of 2156 Stars, formed from the Observations made during Twelve Years, from 1836 to 1847, at the Royal Observatory, Greenwich. London. 1849. 4to.*
- J.** *Observations made at the Radcliffe Observatory, Oxford, in the Years 1840 – 1853, under the Superintendence of Manuel J. Johnson, M. A., Radcliffe Observer. Volume I. – XIV. Oxford. 1842 – 1855. 8vo.*
- Ja.** *A Subsidiary Catalogue of 1440 Stars selected from the British Association Catalogue, reduced to January 1st, 1850, from Observations made at Madras in the Years 1849 – 1853 [under the direction of Capt. W. S. Jacob]. (No date or place of publication.) 4to.*
- Ou.** *Dissertatio Astronomica Inauguralis exhibens Observationes ope Instrumenti Transitorii portabilis institutas. . . . [Auctore J. A. C. Oudemans.] Lugduni Batavorum. [1852.] 4to.*

- Ai. 2. Observations made at the Royal Observatory, Greenwich, in the Years 1853 – 1857, under the Direction of George Biddell Airy, Esq., M. A. London. 1855 – 1859. 5 vols. 4to.*
- J. 2. Observations made at the Radcliffe Observatory [etc. as above. 1854 – 1857]. Volume XV. – XVIII. Oxford. 1856 – 1859. 8vo.*

The Catalogue *M.* contains the places for 1850.0 of the stars in Bessel's "Fundamenta," and the positions given are deduced from a discussion of previous Catalogues, including those cited above, with the exception of *Ja.*, *J. 2*, and *Ai. 2*; including also, as I have assumed, the Greenwich Observations till 1852 inclusive. For many of the stars in the following list, therefore, the places from *M* are reduced to 1859, and given as definitive. For others, the places from the Catalogues *Ai. 2*, *Ja.*, and *J. 2* are annexed to those from *M*. In such case, the proper motion given by Mädler has been used to reduce the other Catalogue places to 1859, and the number of observations employed by Mädler in his discussion has been divided by 2, to get the weight assigned to Mädler's place. Each observation from *Ai. 2* or *J. 2* has received the weight 1, and each one from *Ja.* the weight .5.

The systematic corrections employed to reduce the Catalogues to the zero of Mädler have been those taken from his discussion, so far as applicable; and for the Catalogues *J. 2*, *Ai. 2*, and *Ja.*, a separate examination has been made.

A few of Mädler's positions have been unemployed, the stars being discussed anew. The remaining stars of the following list, those not occurring in the Fundamenta, have been discussed by employing the systematic differences given by Mädler and on pp. 302, 303, to reduce, with the aid of Bessel's precession, the observed positions to 1859. Comparisons, then, between ancient observations (generally Groombridge's of 1810) and the modern ones (referring in general to a time about 1845) have given approximate proper motions by which they could be referred to 1859.

The right ascensions have been taken (to seconds) from the British Association Catalogue, except in one or two cases, where obvious errors existed in some of the Catalogues from which that was formed. Its annual variation to 0^s.1 is given under the heading Annual Variation. The magnitudes have been taken either from Argelander* or Johnson, where possible; if not one of these, Groombridge has been employed, or the *Histoire Céleste*.

Mädler's systematic corrections, referred to above, are, so far as we shall want them: —

* Argelander's *Uranometria Nova* has been used, in preference to other authorities, for magnitudes.

Dec.	M. — Pi.*	M. — Gr.	M. — Str.	M. — Arg	M. — T.	M. — R.	M. — Ai.	M. — J.
70°	+ 0.5	+ 0.7	— 0.1	— 0.7	+ 0.1	— 2.0	— 0.2	— 0.6
60	+ 0.3	+ 0.2	— 0.2	— 0.4	+ 0.2	— 1.4	— 0.3	— 1.2
50	+ 0.1	— 0.1	— 0.4	— 0.4	+ 0.1	— 0.9	— 0.6	— 1.6
40	— 0.3	+ 0.3	+ 0.5	— 0.1	+ 0.6	— 0.2	+ 0.4	— 1.5
30	— 1.0		+ 0.4	0.0	+ 0.5	+ 0.4	+ 0.5	— 1.2
20	— 1.6		+ 0.2	— 0.2	+ 0.3	+ 0.6	+ 0.2	— 1.2

The discussion of α Cygni was taken from Mädler's larger work,† introducing the systematic corrections given later.

For the Catalogues *Ja.*, *J. 2*, and *Ai. 2*, the following investigations were made.

A direct comparison of *Ja.* with *M.* gave:—

M. Dec.	M. — <i>Ja.</i>	
35°	— 0.06	10 comp.
45	— 0.20	8 “
55	— 0.28	11 “
65	— 0.08	25 “

The value $M. — Ja. = -0''.2$ was used throughout.

The Catalogue *J. 2* furnishes positions differing from the former volumes of the Radcliffe Observations by corrections given in Vol. XV. of that work, and repeated subsequently; provided, however, as I have done, we apply the correction for difference between direct and reflected observations to the positions of the Special Catalogues for 1854–1857; this same correction having been already applied to the “Catalogue of Remarkable Objects,” in the volume for 1856.

Below 40° of declination, however, Mädler's systematic corrections are derived from much less material than for the circumpolar regions. We have, correcting Mädler by Johnson's table in Vol. XV. of the Radcliffe Observations:—

Dec.	M. — <i>J. 2.</i>	Dec.	M. — <i>J. 2.</i>
72°	+ 0.53	54°	— 0.15
66	+ 0.41	48	— 0.20
60	+ 0.08		

Below 48° the value $M. — J. 2 = -0''.20$ was used throughout, from the following considerations. Between 22° and 40°,—

$$M. — J. 2 = -0''.18 \qquad 30 \text{ comp.}$$

* I regret that Piazzzi's Catalogue was not at my disposal. A few positions for 1800.0 I owe to Prof. Brünnow's kindness.

† “Untersuchungen über die Fix-stern-Systeme,” Mitau, 1847, fol.

Between 22° and 30° , —

$$\begin{array}{ll} A. - J. 2 = & -0''.19 \quad (\text{Direct comp.}) \\ M. - A. (\text{mean}) & -0''.08 \quad (\text{Mädler.}) \end{array}$$

whence

$$M. - J. 2 \quad -0''.27$$

A direct comparison between *M.* and *J. 2* gave also,

Dec.	M. — J. 2.	
$40^\circ - 50^\circ$	$-0''.4$	17 stars.
$50 - 70$	$+0.1$	9 “

agreeing as well with the above table as was to be expected.

The new Transit Circle at Greenwich seems to give results within our limits pretty nearly in accordance with the Mural Circles used during the years 1812–1851. At least we find: —

	M. — Greenwich Obs. 1857.	No. Comp.
$30^\circ - 40^\circ$	$+0.95$	12
$40 - 50$	-0.04	16
$50 - 60$	-0.51	11

The first number differs slightly from the corresponding mean from Mädler's table; the others are in almost perfect accordance. I have therefore employed the same systematic correction for *Al. 2* as for *Al.*

A cursory examination of Oudemans's table (Diss. Astro., p. 112) showed that the few declinations taken thence might be used without sensible error, as harmonizing with Mädler's positions. To these positions, weights varying from 2 to 6, according to the number of observations, have been assigned. The probable error of the assumption *M. = Ou.* is likely to be quite equal to that of a position given by Oudemans.

Wolfers, in the *Tabulæ Reductionum*, shows that for the fundamental stars south of 49° included in his Catalogue, Pond's positions corrected by Olufsen agree with the determinations given in the *Tabulæ*; Mädler's positions, which are reduced to Pond, after correcting the latter in a somewhat similar manner, will be found also nearly accordant.

The magnitudes in parentheses are derived from Catalogues where no information is given regarding the method pursued in obtaining them.

The Right Ascensions to seconds have been taken from the British Association Catalogue. The initials of the Catalogues have already been explained. The numbers in parentheses in the column “No. Obs.” refer to the differential observations of Oudemans. The last two columns contain the Annual Precession for 1859 and Proper Motion in Declination; the latter taken, in order of preference, from Mädler and the British Association Catalogue.

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
13	7	^h 0 ^m 2 ^s 44	+ 3.1	Gr.		4	45° 36' 21.9"	+ 0.1"	+ 20.05	
				Str.	1824	6	22.7	+ 0.0		
				J.	1846	4	23.6	- 1.6		
				Ja.	1850	4	24.3	- 0.2		
				Ad.			45 36 22.8			
16	5.6	0 3 0	+ 3.1	M.		45	45 17 15.6		+ 20.05	+ 0.01
28	6	0 6 12	+ 3.1	M.		24	40 15 27.5		+ 20.05	- 0.12
60	6	0 11 17	+ 3.1	M.		32	43 0 28.7		+ 20.03	+ 0.01
				Ai. 2		2	27.9	+ 0.1		
				Ad.			43 0 28.6			
67	6	0 13 42	+ 3.1	M.		24	37 11 14.4		+ 20.02	- 0.06
78	6.7	0 16 36	+ 3.2	Gr.		10	43 28 59.8	+ 0.2	+ 20.01	
				R.		1	59.0	- 0.5		
				Ai.	1842	21	58.3	+ 0.1		
				J.	1844	4	59.8	- 1.5		
				Ja.	1850	4	58.8	- 0.2		
				Ad.			43 28 57.7			
100	6	0 20 39	+ 3.2	Gr.		6	43 36 52.8	+ 0.2	+ 19.98	- 0.01
				T.		4	51.0	+ 0.4		
				J.	1844	4	53.6	- 1.5		
				Ad.			43 36 51.7			
121	5	0 24 1	+ 3.3	M.		51	53 44 36.0		+ 19.94	- 0.01
152	6	0 29 7	+ 3.2	Gr.		7	43 42 35.9	+ 0.2	+ 19.90	+ 0.01
				T.		4	35.4	+ 0.4		
				R.	1846	1	37.3	- 0.5		
				J.	1844	3	38.6	- 1.5		
				Ai. 2	1855	4	37.1	0.0		
				Ad.			43 42 37.3			
155	4	0 29 21	+ 3.2	M.		46	32 56 33.8		+ 19.89	+ 0.01
173	5	0 33 30	+ 3.2	M.		35	38 41 3.1		+ 19.84	0.00
				J. 2	1856	3	3.1	- 0.2		
				Ad.			38 41 3.1			
182	7	0 34 26	+ 3.4	M.		24	57 58 45.4		+ 19.83	- 0.01
189	6	0 35 41	+ 3.3	M.		54	46 15 9.1		+ 19.81	- 0.03
197	6	0 36 37	+ 3.3	M.		3	47 5 27.7		+ 19.80	+ 0.04
224	7	0 41 36	+ 3.2	L.	1801	1	27 57 0.7	- 1.5	+ 19.72	
				Ja.	1850	4	56 59.4	- 0.2		
				Ad.			27 56 59.2			
227	4.5	0 42 3	+ 3.3	M.		65	40 18 38.2		+ 19.72	- 0.01
232	6.7	0 42 54	+ 3.4	Gr.		6	50 44 20.1	- 0.1	+ 19.70	- 0.08
				T.		4	20.6	+ 0.1		
				J.	1847	6	24.5	- 1.6		
				Ou.	1849	(17)	21.9	+ 0.0		
				J. 2	1857	1	21.8	- 0.2		
				Ad.			50 44 23.1			
235	6.7	0 43 33	+ 3.4	Gr.		6	50 48 12.7	- 0.1	+ 19.69	- 0.06
				T.		3	12.4	+ 0.1		
				J.	1846	5	14.8	- 1.6		
				Ou.	1849	(16)	13.1	+ 0.0		
				Ad.			50 48 13.3			
244	6.5	0 46 39	+ 3.5	M.		25	58 12 29.7		+ 19.64	- 0.10
				J. 2	1857	3	30.2	+ 0.0		
				Ad.			58 12 29.8			
253	2	0 48 13	+ 3.5	M.		228	59 57 8.0		+ 19.61	- 0.02
				J. 2	1857	3	7.2	+ 0.1		
				Ai. 2	1856	19	7.7	- 0.3		
				Ad.			59 57 7.9			
255	6	0 48 19	+ 3.5	Gr.		7	59 35 54.3	+ 0.2	+ 19.61	

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
255	6	^h 0 ^m 48 ^s 19	+ 3.5	R.		6	59° 35' 56.3"	— 1.4		
				J.	1848	4	55.6	— 1.2		
				Ja.	1850	4	54.9	— 0.2		
				Ad.			59 35 54.6			
256	6	0 48 24	+ 3.2	M.		24	26 26 39.1		+ 19.61	+ 0.01
282	6	0 54 57	+ 3.6	Gr.		6	60 18 56.3	+ 0.2	+ 19.48	
				J.	1848	4	57.7	— 1.2		
				Ja.	1850	4	57.5	— 0.2		
				Ad.			60 18 56.9			
285	5	0 55 6	+ 3.3	M.		29	31 2 47.0		+ 19.48	— 0.03
299	(6)	0 56 45	+ 3.2	L.	1795	1	28 54 27.7	— 1.5	+ 19.44	
				R.		2	24.2	+ 0.4		
				Ja.	1850	6	21.0	— 0.2		
				Ad.			28 54 20.8			
302	7	0 57 30	+ 3.7	Gr.		6	62 0 22.0	+ 0.4	+ 19.43	
				J.	1845	4	22.5	— 1.0		
				Ja.	1850	4	22.0	— 0.2		
				Ad.			62 0 21.3			
330	4.5	1 1 20	+ 3.4	M.		56	46 29 19.8		+ 19.34	— 0.01
352	6.7	1 4 26	+ 3.4	Gr.		6	44 35 9.4	+ 0.2	+ 19.27	— 0.05
				T.		4	9.7	+ 0.3		
				Ai.	1844	5	11.2	— 0.1		
				J.	1844	3	11.8	— 1.5		
				J. 2	1857	2	10.5	— 0.2		
				Ad.			44 35 11.1			
377	7	1 8 24	+ 3.4	Gr.		5	42 11 41.7	+ 0.3	+ 19.17	
				J.	1845	4	43.4	— 1.5		
				Ja.	1851	3	40.3	— 0.2		
				Ad.			42 11 41.2			
404	5	1 14 3	+ 3.5	M.		56	44 47 17.8		+ 19.02	— 0.03
				Ai. 2	1856	2	19.1	+ 0.0		
				Ad.			44 47 17.9			
432	5	1 19 14	+ 3.6	M.		44	44 40 37.7		+ 18.87	— 0.10
				J. 2	1857	5	36.1	— 0.2		
				Ad.			44 40 37.4			
441	6	1 21 40	+ 3.6	M.		38	46 16 41.2		+ 18.80	— 0.06
465	6	1 26 9	+ 3.4	Arg.	1830	6	36 30 46.8	— 0.3	+ 18.65	+ 0.05
				T.		4	45.2	+ 0.7		
				Ad.			36 30 46.2			
480	4.5	1 28 32	+ 3.5	M.		67	40 41 55.0		+ 18.58	— 0.38
				J. 2	1858	1	56.6	— 0.2		
				Ad.			40 41 55.0			
522	4	1 34 51	+ 3.7	M.		93	49 58 35.6		+ 18.36	— 0.03
				Ai. 2	1850	6	36.2	— 0.6		
				J. 2	1857	1	34.7	— 0.2		
				Ad.			49 58 35.6			
558	6	1 42 45	+ 3.9	M.		39	54 26 48.2		+ 18.07	— 0.06
560	6	1 43 13	+ 3.8	M.		55	50 5 36.0		+ 18.05	— 0.04
562	6.7	1 43 51	+ 3.8	Lal.	1799	2	50 46 35.5		+ 18.03	
				Ja.	1850	4	34.1	— 0.2		
				Ad.			50 46 33.9			
566	6	1 44 51	+ 3.6	M.		26	40 1 55.2		+ 17.95	— 0.01
575	6.7	1 46 25	+ 3.6	M.		5	40 0 35.6		+ 17.93	— 0.03
				Ja.		3	33.6	— 0.2		
				Ad.			40 0 34.5			
576	6	1 46 38	+ 3.5	Pi.		3	36 25 64.7	— 0.6	+ 17.92	— 0.05
				T.			59.8	+ 0.7		
				Ad.			36 25 58.0			

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
579	6	^h 1 ^m 47 ^s 35	+ 3.5	M.		26	36° 35' 3.6"		+ 17.88	0.00
580	6	1 47 47	+ 3.5	M.		23	36 33 29.4		+ 17.87	+ 0.01
				J. 2	1857	2	30.7	— 0.2		
				Ad.			36 33 29.6			
614	5.6	1 52 56	+ 3.9	M.		44	53 48 12.0		+ 17.67	— 0.03
649	5	2 0 0	+ 3.6	M.		17	37 11 17.1		+ 17.37	— 0.05
				J. 2	1857	1	20.3	— 0.2		
				Ad.			37 11 17.4			
656	3	2 1 10	+ 3.5	M.		105	34 19 6.2		+ 17.31	— 0.03
				J. 2	1855	3	6.6	— 0.2		
				Ai. 2	1853	11	7.1	+ 0.6		
				Ad.			34 19 6.5			
658	7	2 1 42	+ 4.1	M.		42	56 58 37.9		+ 17.29	+ 0.02
675	6.5	2 4 12	+ 3.5	M.		24	29 38 24.9		+ 17.18	— 0.06
				J. 2	1856	3	26.8	— 0.2		
				Ad.			29 38 25.2			
690	7	2 7 2	+ 4.1	Gr.		6	56 23 50.6	+ 0.0	+ 17.05	+ 0.11
				T.		4	47.4	+ 0.1		
				Ai.	1838	9	48.7	— 0.5		
				J.	1846	3	48.1	— 1.4		
				Ad.			56 23 46.2			
695	6.7	2 8 3	+ 4.2	M.		20	57 14 32.8		+ 17.01	— 0.03
697	6.5	2 8 27	+ 3.6	M.		33	33 34 36.7		+ 16.99	— 0.23
				J. 2	1856	4	37.6	— 0.2		
				Ad.			33 34 36.8			
705	6.7	2 10 12	+ 3.9	Gr.		6	48 17 54.5	+ 0.0	+ 16.90	+ 0.08
				R.		1	57.6	— 0.8		
				J.	1847	4	57.9	— 1.6		
				Ad.			48 17 56.9			
727	6	2 14 5	+ 3.7	Gr.		6	40 45 17.3	+ 0.3	+ 16.72	— 0.09
				T.		4	20.3	+ 0.6		
				J.	1844	4	18.6	— 1.5		
				Ad.			40 45 18.5			
735	5	2 16 14	+ 4.0	M.		52	49 38 15.9		+ 16.61	— 0.04
749	7	2 18 25	+ 4.0	M.		23	49 56 10.8		+ 16.51	— 0.12
				J. 2	1857	3	11.8	— 0.2		
				Ad.			49 56 11.0			
761	6.7	2 21 13	+ 3.7	Gr.		6	38 30 21.4	+ 0.2	+ 16.37	
				R.	1850	1	21.7	— 0.1		
				Ai.	1844	5	21.5	+ 0.5		
				J.	1848	3	21.9	— 1.4		
				Ja.	1850	5	20.5	— 0.2		
				Ad.			38 30 21.0			
806	7.8	2 30 34	+ 4.1	Gr.		6	52 11 36.4	— 0.2	+ 15.88	+ 0.02
				T.		4	35.8	+ 0.0		
				R.		5	35.9	— 1.0		
				J.	1845	3	37.3	— 1.5		
				Ad.			52 11 35.1			
819	6	2 33 4	+ 4.2	Gr.		6	52 55 19.2		+ 15.75	
				J.	1844	3	17.7	— 1.5		
				Ad.			52 55 14.9			
871	5.4	2 41 42	+ 3.8	M.		36	37 44 7.1		+ 15.27	— 0.09
				J. 2	1857	5	7.9	— 0.2		
				Ad.			37 44 7.2			
888	6	2 44 49	+ 3.8	M.		25	37 45 36.9		+ 15.09	— 0.07
912	5	2 49 45	+ 3.8	M.		40	39 5 44.1		+ 14.80	— 0.04
918	5	2 50 51	+ 4.2	Gr.		6	51 47 16.6	— 0.2	+ 14.73	+ 0.05
				Str.	1824	6	51 47 16.6	— 0.4		

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		^h ^m ^s	^s				[°] ['] ^{''}	^{''}		
918	5	2 50 51	+ 4.2	T.		4	51 47 15.5	+ 0.0		
				R.		5	13.8	- 1.0		
				J.	1847	4	16.8	- 1.5		
				Ad.			51 47 14.9			
947	3	2 54 36	+ 4.3	M.		73	52 57 2.2		+ 14.51	- 0.02
				Ai. 2	1855	5	2.7	- 0.6		
				Ad.			52 57 2.2			
953	4	2 56 9	+ 3.8	M.		51	38 17 27.6		+ 14.42	- 0.10
				Ai. 2	1855	5	26.9	+ 0.5		
				Ad.			38 17 27.6			
962	4	2 58 55	+ 4.3	Gr.		6	49 4 18.7	- 0.1	+ 14.25	+ 0.00
				Arg.	1830	24	17.9	- 0.4		
				T.		10	18.4	+ 0.1		
				Ai.	1845	9	16.9	- 0.6		
				J.	1845	3	17.5	- 1.6		
				J. 2	1856	3	14.4	- 0.2		
				Ad.			49 4 15.7			
983	6.7	3 2 51	+ 3.9	Gr.		5	41 50 24.8	+ 0.3	+ 14.00	
				R.		1	25.0	- 0.4		
				J.	1843	3	25.7	- 1.5		
				Ja.	1850	4	24.1	- 0.2		
				Ad.			41 50 23.7			
993	6	3 5 36	+ 4.0	Gr.		6	41 58 24.1	+ 0.3	+ 13.83	+ 0.02
				T.		4	24.3	+ 0.5		
				R.		1	25.5	- 0.4		
				J.	1845	3	27.0	- 1.5		
				Ad.			41 58 25.8			
1030	6.5	3 12 28	+ 5.1	Gr.		6	64 4 38.2	+ 0.5	+ 13.39	- 0.09
				T.		4	33.5	+ 0.3		
				R.	1850	1	39.5	- 1.6		
				J.	1845	4	39.4	- 0.9		
				Ad.			64 4 38.4			
1040	6	3 13 44	+ 3.6	M.		21	27 5 52.1		+ 13.30	- 0.03
1066	5	3 19 18	+ 4.3	M.		34	49 1 0.1		+ 12.94	- 0.05
1083	6	3 22 41	+ 4.1	M.		19	45 34 31.1		+ 12.71	- 0.07
1105	6.7	3 28 28	+ 4.0	Gr.		5	42 6 54.6	+ 0.3	+ 12.32	
				R.		2	50.5	- 0.4		
				J.	1844	3	55.2	- 1.5		
				Ja.	1850	3	53.5	- 0.2		
				Ad.			42 6 52.3			
1139	4	3 35 37	+ 4.0	M.		62	42 7 45.8		+ 11.81	- 0.02
1142	6	3 36 8	+ 4.2	Gr.		6	45 14 8.1	+ 0.1	+ 11.78	
				J.	1845	3	9.9	- 1.6		
				Ja.	1850	4	7.4	- 0.2		
				Ad.			45 14 7.8			
1172	6	3 40 16	+ 4.1	Gr.		6	44 31 61.0	+ 0.2	+ 11.49	
				J.	1844	2	60.3	- 1.5		
				Ja.	1850	4	60.7	- 0.2		
				Ad.			44 31 59.1			
1252	7	3 55 54	+ 4.3	Gr.		6	46 32 19.5	+ 0.1	+ 10.33	+ 0.02
				T.		4	17.0	+ 0.2		
				R.		2	15.3	- 0.7		
				J.	1846	4	18.6	- 1.6		
				Ad.			46 32 15.5			
1264	(6)	3 58 11	+ 4.0	Pi.			37 42 11.4	- 0.5	+ 10.17	- 0.25
				Arg.	1830	9	3.5	+ 0.0		
				T.		4	37 42 2.6	+ 0.7		
				J. 2.	1857	1	37 41 56.4	- 0.2		

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		^h ^m ^s	^s				[°] ['] ["]			
1264	(6)	3 58 11	+ 4.0	Ad.			37 41' 55.9			
1269	6	3 59 13	+ 4.0	M.		30	37 40 0.4		+10.09	— 0.19
				J. 2	1856	2	0.6	— 0.2		
				Ad.			37 40 0.4			
1293	5	4 5 43	+ 4.6	Gr.		11	53 15 11.2	— 0.1	+ 9.59	— 0.06
				T.		4	10.0	+ 0.0		
				J.	1844	4	11.2	— 1.5		
				Ad.			53 15 9.1			
1307	6.7	4 8 38	+ 4.5	Gr.		6	49 42 3.8	— 0.1	+ 9.37	
				J.	1845	4	3.0	— 1.6		
				Ou.	1849	(2)	3.1	+ 0.0		
				Ja.	1850	4	0.6	— 0.2		
				Ad.			49 42 0.6			
1320	6.7	4 10 30	+ 4.1	Gr.		6	41 27 47.5	+ 0.3	+ 9.22	+ 0.04
				T.		4	47.4	+ 0.5		
				R.		4	46.9	— 0.4		
				J.	1845	3	49.1	— 1.5		
				Ad.			41 27 47.2			
1382	6	4 20 53	+ 4.7	M.		38	53 35 56.4		+ 8.41	— 0.02
1398	6	4 23 30	+ 4.2	M.		21	42 45 30.9		+ 8.20	+ 0.01
				J. 2	1857	1	33.2	— 0.2		
				Ai. 2	1855	1	27.5	+ 0.2		
				Ad.			42 45 30.8			
1476	6	4 40 25	+ 4.0	M.		29	37 14 6.2		+ 6.82	+ 0.07
1477	6	4 40 34	+ 4.5	Gr.		5	48 29 35.9	+ 0.0	+ 6.81	0.00
				T.		4	33.9	+ 0.1		
				J.	1843	3	34.7	— 1.6		
				Ou.	1849	(20)	33.3	+ 0.0		
				Ad.			48 29 32.5			
1504	5	4 46 0	+ 4.8	M.		56	53 31 15.0		+ 6.36	— 0.02
1524	7	4 48 33	+ 4.8	M.		24	52 55 58.3		+ 6.15	— 0.06
1530	6	4 49 41	+ 4.1	M.		46	37 40 21.9		+ 6.06	— 0.10
1534	6.7	4 50 37	+ 4.1	M.		22	39 10 35.9		+ 5.98	+ 0.01
1535	6.7	4 50 41	+ 4.1	M.		22	39 26 12.4		+ 5.97	+ 0.01
1554	5	4 55 38	+ 4.7	M.		40	51 24 18.3		+ 5.56	— 0.18
				J. 2	1858	4	18.8	— 0.1		
				Ad.			51 24 18.4			
1622	6	5 7 18	+ 5.1	Gr.		6	57 57 37.5	+ 0.1	+ 4.57	— 0.03
				T.		4	34.2	+ 0.1		
				J.	1846	4	35.9	— 1.3		
				Ad.			57 57 32.9			
1627	5	5 8 55	+ 3.9	M.		17	33 13 13.0		+ 4.43	— 0.16
				J. 2	1857	1	13.2	— 0.2		
				Ad.			33 13 13.0			
1631	5	5 9 13	+ 4.2	M.		67	39 58 9.3		+ 4.41	— 0.65
				J. 2	1857	2	9.0	— 0.2		
				Ad.			39 58 9.3			
1642	6.5	5 11 23	+ 5.1	M.		33	57 24 5.4		+ 4.22	— 0.05
1645	6.5	5 11 50	+ 4.2	M.		27	41 39 32.2		+ 4.18	— 0.05
1723	5	5 23 33	+ 3.9	M.		42	32 5 1.1		+ 3.18	+ 0.02
				Ai. 2	1856	3	4 59.5	+ 0.6		
				Ad.			5 1.0			
1804	6.5	5 35 0	+ 4.7	M.		48	49 45 32.5		+ 2.18	— 0.03
				J. 2	1856	3	32.7	— 0.2		
				Ou.	1849	(18)	33.3	0.0		
				Ad.			49 45 32.5			
1830	5	5 39 24	+ 4.2	M.		25	39 7 41.0		+ 1.80	— 0.04
1844	5	5 41 26	+ 4.1	M.		27	37 15 37.0		+ 1.62	— 0.04

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		^h ^m ^s	^s				[°] ['] ["]		["]	["]
1845	4	5 41 43	+ 4.2	M.		47	39 6 9.5		+ 1.60	+ 0.05
1849	5.6	5 42 20	+ 5.4	M.		85	59 51 0.5		+ 1.54	- 0.03
				Ai. 2	1857	19	50 59.8	- 0.3		
				Ad.			59 51 0.2			
1854	5	5 43 2	+ 5.0	M.		37	55 40 5.1		+ 1.48	- 0.02
1885	4.5	5 47 55	+ 4.9	M.		159	54 16 4.2		+ 1.06	- 0.14
				Ai. 2	1853	1	5.2	- 0.6		
				J. 2	1857	1	4.5	- 0.2		
				Ad.			54 16 4.2			
1895	2	5 49 11	+ 4.4	M.		315	44 55 41.2		+ 0.95	- 0.01
				Ai. 2	1855	7	40.8	- 0.1		
				Ad.			44 55 41.2			
1897	5	5 49 28	+ 4.5	Gr.		11	45 55 8.9	+ 0.1	+ 0.92	- 0.02
				T.		5	9.3	+ 0.2		
				J.	1847	3	8.8	- 1.6		
				Ad.			45 55 7.7			
1900	3	5 50 6	+ 4.1	M.		45	37 11 53.2		+ 0.87	- 0.11
				Ai. 2	1855	10	53.6	+ 0.6		
				J. 2	1855	2	54.3	- 0.2		
				Ad.			37 11 53.5			
1902	6	5 50 17	+ 4.5	M.		27	47 53 15.2		+ 0.85	- 0.04
1914	6	5 51 51	+ 4.7	Gr.		5	49 53 56.4	- 0.1	+ 0.71	[+ 0.10]
				T.		4	(54 5.4)			
				J.	1845	3	53 55.3	- 1.6		
				Ad.			49 53 52.7			
1923	6	5 53 8	+ 4.3	M.		43	42 54 39.2		+ 0.60	- 0.16
				J. 2	1857	4	39.4	- 0.2		
				Ad.			42 54 39.2			
1943	6	5 57 32	+ 5.3	M.		46	58 56 51.0		+ 0.21	+ 0.02
1963	6.7	6 0 49	+ 4.6	M.		35	48 44 3.7		- 0.07	- 0.04
				J. 2	1856	4	2.4	- 0.2		
				Ad.			48 44 3.4			
1979	6	6 3 0	+ 5.4	M.		41	60 1 53.6		- 0.26	- 0.05
2001	5.4	6 6 24	+ 3.8	M.		83	29 32 45.3		- 0.56	- 0.23
				Ai. 2	1856	10	44.8	+ 0.5		
				J. 2	1855	8	44.4	- 0.2		
				Ad.			29 32 45.1			
2007	5.4	6 7 11	+ 5.3	M.		87	59 3 20.4		- 0.63	+ 0.01
				J. 2		4	20.3	+ 0.1		
				Ad.			59 3 20.4			
2008	7	6 7 4	+ 4.5	M.		18	46 27 55.6		- 0.62	- 0.01
2010	6.7	6 7 46	+ 4.5	M.		26	46 24 36.3		- 0.68	- 0.15
				J. 2	1857	3	35.7	- 0.2		
				Ad.			46 24 36.1			
2044	5	6 14 2	+ 4.6	M.		80	49 21 17.0		- 1.23	+ 0.05
				Ou.		(18)	16.9			
				Ad.			49 21 17.0			
2046	6	6 14 32	+ 5.1	Gr.		5	56 21 15.1	0.0	- 1.27	
				J.	1848	4	17.0	- 1.4		
				Ja.	1850	4	16.1	- 0.2		
				Ad.			56 21 15.9			
2128	6	6 25 39	+ 5.1	M.		25	56 57 56.9		- 2.24	+ 0.04
2133	6.5	6 26 19	+ 3.8	M.		24	28 7 41.5		- 2.30	0.00
				Ai. 2	1857	3	40.6	+ 0.4		
				Ad.			28 7 41.4			
2139	6	6 26 51	+ 4.1	Gr.		6	38 33 17.6		- 2.34	
				J.	1851	4	19.8	- 1.4		
				Ja.	1850	4	38 33 15.8	- 0.2		

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		h m s	s				$^{\circ}$ ' "		"	"
2139	6	6 26 51	+ 4.1	Ad.			38 33' 17.5			
2159	5	6 29 16	+ 4.3	M.		27	42 36 29.2		— 2.55	— 0.04
2161	6	6 29 26	+ 3.8	M.		18	29 6 3.0		— 2.57	— 0.01
2170	6	6 30 40	+ 3.8	M.		26	28 22 58.0		— 2.68	— 0.06
				Ai. 2	1857	1	59.7	+ 0.4		
				Ad.			28 22 58.1			
2182	5	6 32 49	+ 4.4	M.		65	44 39 18.6		— 2.86	— 0.02
2187	5	6 33 46	+ 5.3	M.		46	59 34 42.0		— 2.94	0.00
				J. 2	1855	4	41.8	+ 0.1		
				Ad.			59 34 42.0			
2192	6	6 34 49	+ 5.2	M.		27	57 18 33.7		— 3.03	— 0.08
				J. 2	1857	1	35.6	— 0.1		
				Ad.			33.9			
2201	6	6 36 55	+ 4.6	M.		43	48 55 59.4		— 3.22	— 0.01
				Ou.	1849	(17)	59.8	+ 0.0		
				Ad.			48 55 59.5			
2223	5	6 40 47	+ 4.2	M.		34	41 56 32.6		— 3.55	— 0.12
				Ai. 2	1856	2	32.5	+ 0.3		
				J. 2	1856	2	35.1	— 0.2		
				Ad.			41 56 32.9			
2237	3.4	6 43 30	+ 4.0	M.		50	34 7 37.2		— 3.78	— 0.03
2239	6.7	6 43 34	+ 4.1	M.		29	38 36 32.9		— 3.79	— 0.20
				J. 2	1857	1	36.0	— 0.2		
				Ad.			38 36 33.1			
2241	6.7	6 44 17	+ 4.1	M.		24	38 40 24.0		— 3.85	— 0.01
2248	5	6 45 3	+ 5.2	M.		89	58 36 4.6		— 3.92	— 0.17
				J. 2	1857	4	5.2	+ 0.0		
				Ad.			58 36 4.7			
2261	5	6 47 19	+ 4.4	M.		31	45 16 20.3		— 4.11	— 0.01
2338	5	7 1 57	+ 4.1	M.		65	39 32 46.6		— 5.35	+ 0.02
2340	5.4	7 2 10	+ 3.8	M.		73	30 28 20.0		— 5.37	— 0.04
				Ai. 2	1854	1	19.2	+ 0.5		
				J. 2	1856	5	21.0	— 0.2		
				Ad.			30 28 20.1			
2361	6	7 5 21	+ 4.5	Gr.		6	47 29 16.5	+ 0.0	— 5.65	
				J.	1848	5	10.9	— 1.6		
				Ja.	1850	3	9.7	— 0.2		
				Ad.			47 29 7.4			
2367	6	7 6 29	+ 4.7	Gr.		6	52 22 33.3	— 0.2	— 5.74	
				J.	1847	7	30.4	— 1.5		
				Ja.	1850	4	27.9	— 0.2		
				Ad.			52 22 27.3			
2379	6	7 7 48	+ 4.6	J.	1848	4	49 42 41.5	— 1.6	— 5.85	
				Ja.	1850	4	42 39.8	— 0.2		
				Ad.			42 39.8			
2381	6	7 8 14	+ 4.2	M.		58	41 7 45.9		— 5.88	+ 0.01
				Ai. 2	1856	4	45.8	+ 0.4		
				Ad.			41 7 45.9			
2407	5	7 11 21	+ 4.9	M.		44	55 32 30.1		— 6.14	— 0.06
2429	6	7 14 22	+ 4.2	M.		26	40 56 22.3		— 6.39	— 0.02
2441	5	7 16 4	+ 4.6	M.		28	49 29 10.3		— 6.54	— 0.08
2442	4	7 16 58	+ 3.7	M.		97	28 4 28.1		— 6.61	— 0.09
				Ai. 2	1856	10	27.5	+ 0.4		
				J. 2	1857	4	29.2	— 0.2		
				Ad.			28 4 28.1			
2459	6	7 19 12	+ 4.6	M.		42	49 57 31.6		— 6.79	— 0.09
				J. 2	1857	2	31.1	— 0.2		
				Ou.	1849	(10)	49 57 32.0	0.0		

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2459	6	^h 7 ^m 19 ^s 12	+ 4.6	Ad.			49° 57' 31.6"			
2467	5	7 20 33	+ 3.8	M.		28	28 24 16.9		— 6.90	— 0.06
				Ai. 2	1855	4	17.2	+ 0.4		
				Ad.			28 24 17.0			
2469	5	7 21 2	+ 3.7	M.		15	28 12 12.5		— 6.94	— 0.01
				Ai. 2	1855	4	10.5	+ 0.4		
				Ad.			28 12 12.0			
2488	6	7 26 16	+ 4.4	J.	1847	4	46 29 13.3	— 1.6	— 7.37	
				Ja.	1850	5	11.5	— 0.2		
				Ad.			46 29 11.5			
2493	4.5	7 27 14	+ 3.7	M.		53	27 12 19.9		— 7.45	— 0.10
				Ai. 2	1854	1	19.6	+ 0.4		
				J. 2	1857	5	20.4	— 0.2		
				Ad.			20.1			
2516	5	7 31 3	+ 5.1	M.		54	59 2 5.4		— 7.76	— 0.08
2540	5	7 34 30	+ 3.8	M.		36	29 13 15.4		— 8.04	— 0.24
				J. 2.	1855	3	15.6	— 0.2		
				Ad.			29 13 15.4			
2606	6.7	7 44 13	+ 4.4	M.		34	47 44 47.2		— 8.81	— 0.02
				Ou.	1849	(3)	46.4	+ 0.0		
				Ad.			47 44 47.1			
2609	6	7 44 26	+ 4.4	M.		47	47 55 31.9		— 8.83	— 0.03
				Ou.	1849	(5)	32.3	+ 0.0		
				Ad.			47 55 31.9			
2638	6.7	7 48 21	+ 4.2	Gr.		6	44 20 58.5	+ 0.2	— 9.13	
				J.	1844	4	21 0.1	— 1.5		
				Ja.	1850	4	20 58.7	— 0.2		
				Ad.			44 20 58.5			
2672	5	7 54 51	+ 3.7	M.		45	28 11 9.8		— 9.63	— 0.04
				Ai. 2	1855	43	9.9	+ 0.4		
				J. 2	1856	4	11.9	— 0.2		
				Ad.			28 11 10.2			
2697	5.4	7 57 50	+ 4.6	M.		85	51 54 31.4		— 9.86	0.00
				Ou.	1849	(8)	31.2	+ 0.0		
				Ad.			51 54 31.4			
2732	6.5	8 2 34	+ 4.8	Gr.		6	56 52 14.4	+ 0.0	— 10.22	+ 0.02
				T.		4	13.8	+ 0.1		
				R.		6	15.2	— 1.2		
				Ai.	1840	7	13.5	— 0.5		
				J.	1843	5	15.4	— 1.4		
				Ad.			56 52 13.5			
2747	6	8 4 24	+ 3.7	M.		41	30 4 32.4		— 10.36	— 0.02
2792	6	8 13 6	+ 4.6	Gr.		6	53 40 16.8	— 0.1	— 11.00	— 0.04
				T.	1835	4	12.8	0.0		
				Ai.	1843	5	12.8	— 0.6		
				J.	1844	5	13.2	— 1.5		
				Ad.			53 40 9.8			
2819	3.4	8 18 31	+ 5.1	M.		272	61 11 4.9		— 11.40	— 0.14
				J. 2	1857	3	4.5	+ 0.1		
				Ad.			61 11 4.9			
2871	6	8 25 40	+ 3.9	M.		19	36 54 0.8		— 11.91	— 0.02
2887	6	8 27 49	+ 4.5	Gr.		6	53 53 19.9	— 0.1	— 12.05	
				R.		4	20.8	— 1.1		
				Ai.	1845	5	19.4	— 0.6		
				J.	1844	4	19.9	— 1.5		
				Ja.	1850	3	17.8	— 0.2		
				Ad.			53 53 18.1			
2892	6	8 28 49	+ 4.5	Gr.		5	53 12 7.1	— 0.1	— 12.13	+ 0.01

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
2892	6	^h 8 ^m 28 ^s 49	^s + 4.5	T. J. Ad.	1845	4 4	53° 12' 6.0 8.2	0.0 - 1.5		
2909	6	8 31 15	+ 4.2	M.		35	53 12 6.2 46 19 29.3		- 12.29	+ 0.07
3000	6.7	8 43 58	+ 3.6	M. J. 2 Ad.	1855	16 4	28 47 7.6 9.1		- 13.15	- 0.01
3025	6	8 47 16	+ 4.1	Gr. T. R. J. Ad.	1848	6 4 1 5	28 47 8.0 46 10 10.6 10.1 9.4 10.6	- 0.2 + 0.1 + 0.2 - 0.7 - 1.6	- 13.37	+ 0.04
3027	6	8 47 21	+ 3.9	Gr. R. J. Ja. Ad.	1844 1850	6 2 4 4	40 44 22.0 18.7 20.7 19.4	+ 0.3 - 0.2 - 1.5 - 0.2	- 13.38	
3046	(6)	8 49 24	+ 3.7	M.		26	40 44 17.9 30 46 21.2		- 13.51	+ 0.03
3059	4	8 51 28	+ 3.9	M. Ai. 2 J. 2 Ad.	1856 1856	60 1 7	42 20 17.1 16.9 18.1		- 13.64	- 0.28
3069	6	8 53 24	+ 3.6	M.		23	42 20 17.2 28 27 18.7	+ 0.3 - 0.2	- 13.77	- 0.08
3072	6	8 53 39	+ 4.4	Gr. R. J. Ja. Ad.	1847 1850	6 3 6 4	54 50 10.2 10.4 11.9 10.6	- 1.1 - 1.5 - 0.2	- 13.78	
3075	3.4	8 53 59	+ 4.1	M. J. 2 Ou. Ad.	1856 1849	156 6 (13)	54 50 10.4 47 42 37.2 37.6 39.2	- 0.2 + 0.0	- 13.80	- 0.10
3097	5	8 57 33	+ 3.9	Gr. T. Ai. J. Ad.	1840 1845	10 10 4 4	47 42 37.3 39 0 47.1 46.2 47.5 47.9	+ 0.3 + 0.7 + 0.5 - 1.5	- 14.03	- 0.06
3100	7	8 57 49	+ 3.8	Gr. J. Ja. Ad.	1846 1850	2 3 4	39 0 47.4 38 50 25.3 24.5 22.6	+ 0.2 - 1.4 - 0.2	- 14.05	
3106	5	8 58 54	+ 4.3	M. J. 2 Ad.	1854	36 3	38 50 22.1 52 10 13.6 14.1	- 0.2	- 14.11	- 0.05
3109	6	8 59 32	+ 3.6	M.		20	52 10 13.6 30 13 5.8		- 14.15	0.00
3140	5	9 6 1	+ 4.4	M. J. 2 Ad.	1856	123 7	54 36 2.1 2.1	- 0.1	- 14.55	+ 0.03
3150	6	9 8 2	+ 4.1	Gr. T. J. Ad.	1846	6 4 7	54 36 2.1 47 24 7.0 5.7 7.6	+ 0.0 + 0.1 - 1.6	- 14.67	+ 0.03
3162	4	9 10 4	+ 3.8	M.		71	47 24 5.4 37 23 48.0		- 14.79	- 0.09
3172	6	9 11 21	+ 4.5	Gr. J. Ja. Ad.	1847 1850	6 5	57 17 36.8 37.4 36.4	- 1.3 - 0.2	- 14.87	
3178	3.4	9 12 28	+ 3.7	M.		105	57 17 35.9 34 59 9.8		- 14.93	0.00

B. A. C.	Mag.	α 1850.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1850.0.	Systematic Correction.	Precession.	Proper Motion.
3178	3.4	^h 9 ^m 12 ^s 28	+ 3.7	J. 2	1855	6	[°] 34 59' 11.6"	— 0.2		
				Ad.			34 59' 10.0"			
3218	6	9 19 25	+ 4.0	M.		52	46 12 58.9		— 15.33	— 0.16
				J. 2	1855	3	59.4	— 0.2		
				Ad.			46 12 58.9			
3256	5	9 25 9	+ 4.2	M.		34	52 40 32.8		— 15.65	— 0.04
3261	5	9 25 35	+ 3.7	M.		46	37 1 15.9		— 15.67	— 0.03
				Ai. 2	1857	3	15.9	+ 0.5		
				Ad.			37 1 16.0			
3265	(6)	9 26 15	+ 3.8	Gr.		6	40 14 43.3	+ 0.3	— 15.71	— 0.05
				T.		4	40.5	+ 0.6		
				J.	1847	6	43.2	— 1.5		
				Ad.			40 14 40.6			
3281	6	9 29 33	+ 3.8	M.		28	40 52 13.7		— 15.89	— 0.01
				Ai. 2	1856	1	15.0	+ 0.4		
				Ad.			40 52 13.8			
3307	6	9 33 15	+ 3.7	M.		24	40 23 53.3		— 16.09	— 0.05
3317	5	9 35 17	+ 3.5	M.		22	30 37 14.3		— 16.19	— 0.10
				J. 2	1855	5	14.1	— 0.2		
				Ad.			30 37 14.2			
3324	6	9 36 30	+ 4.3	M.		35	57 46 20.9		— 16.25	— 0.01
3341	6	9 39 29	+ 3.9	M.		54	46 40 31.0		— 16.40	— 0.11
				J. 2	1854	2	31.9	— 0.2		
				Ad.			46 40 31.0			
3346	4.3	9 40 56	+ 4.3	M.		273	59 41 55.7		— 16.48	— 0.20
				Ai. 2	1857	2	57.0	— 0.3		
				Ad.			59 41 55.7			
3352	6.7	9 41 33	+ 3.7	M.		30	40 17 10.0		— 16.51	+ 0.01
3358	5.4	9 42 29	+ 4.1	M.		70	54 43 13.3		— 16.55	— 0.02
3381	5	9 46 29	+ 4.0	M.		33	50 28 59.2		— 16.75	0.00
				Ou.	1849	(3)	59.0	+ 0.0		
				Ad.			50 28 59.2			
3399	5	9 49 2	+ 3.7	M.		35	41 43 30.1		— 16.87	— 0.03
				Ai. 2	1856	5	29.4	+ 0.3		
				Ad.			41 43 30.0			
3402	6	9 50 8	+ 4.2	Gr.		6	57 29 4.4	+ 0.1	— 16.92	
				J.	1845	5	5.3	— 1.3		
				Ja.	1850	4	3.6	— 0.2		
				Ad.			57 29 3.5			
3446	4.5	9 59 6	+ 3.6	M.		48	35 55 48.4		— 17.33	0.00
				J. 2	1856	5	47.5	— 0.3		
				Ad.			35 55 48.2			
3505	3.4	10 8 34	+ 3.7	M.		334	43 37 0.2		— 17.73	— 0.09
3533	3	10 13 55	+ 3.6	M.		197	42 12 24.8		— 17.94	0.00
				Ai. 2	1857	5	25.2	+ 0.3		
				J. 2	1857	3	26.3	— 0.2		
				Ad.			42 12 24.9			
3565	6	10 19 6	+ 3.6	Gr.		6	42 19 17.6	+ 0.3	— 18.14	+ 0.06
				T.		4	14.4	+ 0.5		
				J.	1847	4	15.3	— 1.5		
				Ad.			42 19 12.5			
3567	6	10 19 24	+ 3.7	Fed.	1790	1	49 33 13.5	— 0.4	— 18.15	
				Gr.		6	49 32 52.7	— 0.1		
				J.	1846	6	23.8	— 1.6		
				Ja.	1850	4	17.0	— 0.2		
				Ou.	1850	(8)	19.1	+ 0.0		
				Ad.			49 32 9.8			
3572	4.5	10 19 43	+ 3.5	M.		79	37 25 41.5		— 18.17	— 0.11

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
3572	4.5	^h 10 ^m 19 ^s 43	+ 3.5	J. 2	1854	1	37° 25' 42.5"	— 0.2		
3580	5	10 21 35	+ 3.9	Ad. M.		73	37 25 41.5 56 42 7.5		—18.23	— 0.01
3607	5	10 25 0	+ 3.5	J. 2 Ad. Gr.	1857	7	56 42 7.2 56 42 7.4	— 0.1		
				J.	1846	6	41 8 59.6	+ 0.3	—18.36	
				Ja.	1850	4	9 1.1 9 0.0	— 1.5 — 0.2		
3612	5	10 26 3	+ 3.9	Ad. M.		115	41 8 59.6 57 48 24.8		—18.39	— 0.01
				J. 2	1855	4	26.2	+ 0.0		
3639	6	10 30 20	+ 3.8	Ad. Gr.		6	57 48 24.9 54 24 15.1	— 0.1	—18.54	
				J.	1843	4	11.8	— 1.5		
				Ja.	1850	4	11.4	— 0.2		
3640	5.4	10 30 47	+ 3.4	Ad. M.		67	54 24 8.8 32 42 26.7		—18.55	0.00
3665	5	10 35 15	+ 3.6	Gr.		7	46 56 41.9	+ 0.0	—18.70	+ 0.03
				T.		4	39.1	+ 0.1		
				J.	1843	5	38.9	— 1.6		
3685	5	10 38 1	+ 3.3	Ad. M.		75	46 56 35.5 31 25 25.2		—18.79	— 0.05
				Ai. 2	1857	4	25.1	+ 0.6		
3713	6	10 42 28	+ 3.8	Ad. M.		29	31 25 25.3 57 19 38.1		—18.92	— 0.04
3725	5	10 45 1	+ 3.7	M.		43	55 19 59.8		—18.99	— 0.04
3728	4	10 45 25	+ 3.4	M.		59	34 58 27.3		—19.00	— 0.25
				J. 2	1855	5	27.2	— 0.2		
3729	5	10 45 51	+ 3.5	Ad. M.		119	34 58 27.3 43 56 22.5		—19.01	— 0.04
				Ai. 2	1857	4	22.7	+ 0.0		
3757	5	10 51 33	+ 3.4	Ad. M.		38	43 56 22.5 41 10 55.6		—19.17	+ 0.04
				J. 2	1857	4	57.2	— 0.2		
3758	6	10 52 8	+ 3.5	Ad. Gr.		6	41 10 55.8 46 16 52.1	+ 0.1	—19.18	
				J.	1847	4	53.6	— 1.6		
				Ja.	1850	4	51.1	— 0.2		
3765	5	10 52 56	+ 3.4	Ad. M.		29	46 16 51.5 39 58 7.9		—19.20	0.00
3767	2.3	10 53 19	+ 3.7	M.		262	57 8 13.1		—19.21	0.00
				J. 2	1854	2	14.4	+ 0.0		
3811	6	11 1 33	+ 3.3	Ad. Lal.		1	57 8 13.1 37 4 25.3	— 1.6	—19.41	— 0.02
				T.		4	24.4	+ 0.7		
3812	3	11 1 43	+ 3.4	Ad. M.		297	37 4 25.1 45 15 44.6		—19.41	— 0.08
3846	6	11 8 44	+ 3.4	Gr.		6	50 14 44.9	— 0.1	—19.56	— 0.01
				T.		4	40.8	+ 0.1		
				J.	1845	3	43.4	— 1.6		
3852	3.4	11 10 51	+ 3.3	Ad. M.		91	50 14 39.4 33 51 46.6		—19.59	— 0.02
3856	5	11 11 26	+ 3.3	M.		47	38 57 30.5		—19.61	+ 0.09
3864	6	11 14 27	+ 3.6	Gr.		6	65 6 3.6	+ 0.6	—19.66	— 0.06
				T.		4	2.2	+ 0.3		
				J.	1847	5	5.8	— 0.8		
3905	5	11 21 28	+ 3.3	Ad. M.		36	65 6 4.2 40 6 45.4		—19.77	+ 0.01

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
3931	6	^h 11 ^m 27 ^s 17	+ 3.3	Gr.		6	55° 33' 51.2	+ 0.0	— 19.85	
				J.	1843	4	51.8	— 1.4		
				Ja.	1850	4	50.5	— 0.2		
				Ad.			55 33 50.0			
3933	6	11 27 44	+ 3.6	M.		34	70 6 24.2		— 19.86	— 0.14
				J. 2	1857	6	24.7	+ 0.5		
				Ad.			70 6 24.5			
3965	5	11 33 37	+ 3.2	M.		28	34 59 51.6		— 19.92	— 0.40
				J. 2	1855	4	53.7	— 0.2		
				Ad.			34 59 52.0			
3981	4	11 38 36	+ 3.2	M.		211	48 33 38.9		— 19.96	— 0.01
3985	6	11 39 21	+ 3.3	Gr.		6	56 24 46.1	+ 0.0	— 19.97	
				J.	1843	4	47.4	— 1.4		
				Ja.	1850	4	45.0	— 0.2		
				Ad.			56 24 45.4			
4057	5	11 54 57	+ 3.1	M.		71	43 49 39.9		— 20.05	+ 0.04
				J. 2	1857	4	40.5	— 0.2		
				Ad.			43 49 39.9			
4108	7	12 4 42	+ 3.0	M.		30	57 50 21.0		— 20.05	— 0.04
4123	3.4	12 8 26	+ 3.0	M.		Omitted.	57 48 58.0		— 20.04	— 0.03
4152	(6.7)	12 13 13	+ 3.0	T.		2	26 47 2.5	+ 0.4	— 20.02	+ 0.09
				Ad.			26 47 5.1			
4169	5	12 15 25	+ 3.0	M.		47	26 37 44.7		— 20.01	+ 0.01
4181	5	12 17 14	+ 3.0	M.		50	26 52 51.5		— 20.00	— 0.03
				Ai. 2	1854	6	51.1	+ 0.3		
				Ad.			26 52 51.5			
4199	7	12 20 35	+ 3.0	Lal.	1794	1	26 41 41.8	— 0.6	— 19.97	
				R.		1	35.2	+ 0.6		
				Ja.	1850	4	35.0	— 0.2		
				J. 2.	1857	3	36.3	— 0.2		
				Ad.			26 41 35.5			
4206	(7)	12 21 42	+ 3.0	M.		9	26 40 51.8		— 19.97	+ 0.03
4207	5	12 21 52	+ 3.0	M.		24	26 41 37.3		— 19.97	— 0.02
4240	5	12 27 50	+ 3.0	Pi.			23 24 23.0	— 1.4	— 19.90	0.00
				T.		5	22.1	+ 0.4		
				R.		2	22.6	+ 0.5?		
				J. 2	1857	1	22.0	— 0.2		
				Ad.			23 24 22.9			
4305	6	12 42 30	+ 2.6	Gr.		6	61 5 22.1	+ 0.3	— 19.71	
				R.		4	23.7	— 1.5		
				J.	1846	6	23.8	— 1.1		
				Ja.	1850	4	21.5	— 0.2		
				Ad.			61 5 22.3			
4341	6	12 48 30	+ 2.8	Gr.		6	47 57 43.8	+ 0.0	— 19.61	
				J.	1846	4	45.2	— 1.6		
				Ja.	1850	4	42.1	— 0.2		
				Ad.			47 57 42.8			
4384	5	12 59 9	+ 2.8	M.		65	36 33 15.9		— 19.39	+ 0.01
4421	4	13 5 18	+ 2.8	M.		48	28 35 38.8		— 19.25	+ 0.89
				J. 2	1854	3	38.6	— 0.2		
				Ai. 2	1853	5	38.5	+ 0.4		
				Ad.			28 35 38.8			
4484	2	13 18 14	+ 2.4	M.		563	55 39 45.0		— 18.90	— 0.06
				J. 2	1855	3	43.8	— 0.1		
				Ad.			45.0			
4486	4.5	13 18 16	+ 2.4	Br.	1755	3	55 39 38.1		— 18.90	— 0.06
				Gr.		5	35.3	+ 0.0		
				T.		7	55 39 34.3	+ 0.1		

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
4486	4.5	^h 13 ^m 18 ^s 16	+ 2.4	Ai.	1838	72	55° 39' 33.8	— 0.5		
				J.	1847	8	34.6	— 1.4		
				J. 2	1857	1	36.4	— 0.1		
4493	5	13 19 34	+ 2.4	Ad.		62	55 39 32.1		— 18.86	— 0.05
				M.		1	55 43 24.0	+ 0.0		
				J. 2	1856		24.5			
4519	6	13 25 9	+ 2.6	Ad.			55 43 24.0			
				Lal.	1793	1	42 49 58.6	— 0.8	— 18.69	
				R.	1842	3	58.0	— 0.4		
				Ai.	1843	17	57.6	+ 0.3		
				J.	1845	3	60.5	— 1.5		
				Ja.	1850	4	57.1	— 0.2		
4596	6.5	13 40 14	+ 2.6	Ad.			42 49 58.0			
				Gr.		6	41 47 52.5	+ 0.3	— 18.17	
				R.	1841	1	47.0	— 0.4		
				Ai.	1844	16	50.9	+ 0.3		
				J.	1844	4	52.0	— 1.5		
				Ja.	1857	2	50.7	— 0.2		
4609	6	13 42 8	+ 2.5	Ad.			41 47 50.1			
				Gr.		5	42 45 14.4	+ 0.3	— 18.10	
				J.	1843	5	15.8	— 1.5		
				Ja.	1851	4	12.9	— 0.2		
4676	(7)	13 55 7	+ 2.7	Ad.			42 45 13.4			
				Ja.	1850	4	32 14 52.4	— 0.2	— 17.57	
4678	(7)	13 56 19	+ 2.7	Ad.			32 14 52.2			
				Ja.	1850	4	32 20 27.9	— 0.2	— 17.52	
				Ad.			32 20 27.7			
4726	4.5	14 8 26	+ 2.2	M.		59	52 27 1.3		— 16.99	— 0.04
4728	6	14 8 42	+ 2.4	Gr.		6	42 10 61.7	+ 0.3	— 16.97	
				J.	1844	3	59.9	— 1.5		
				Ja.	1850	4	57.3	— 0.2		
4789	4.3	14 20 24	+ 2.0	Ad.			42 10 56.6			
				M.		238	52 30 17.4		— 16.41	— 0.43
				J. 2	1857	6	14.9	— 0.2		
4805	6.7	14 24 3	+ 2.4	Ad.			52 30 17.3			
				Gr.		6	42 26 11.5	+ 0.3	— 16.22	
				J.	1844	5	7.5	— 1.5		
				Ja.	1850	4	3.1	— 0.2		
				Ai. 2	1856	2	3.0	+ 0.2		
4843	6	14 33 35	+ 2.2	Ad.			42 26 2.6			
4918	6	14 47 51	+ 1.5	M.		37	45 0 53.3		— 15.72	— 0.02
				Gr.		6	59 51 58.2	+ 0.2	— 14.91	+ 0.07
				T.		3	62.3	+ 0.2		
				Ai.	1843	15	63.3	— 0.3		
				J.	1848	4	64.9	— 1.2		
				J. 2	1859	4	66.0	+ 0.1		
4943	5	14 54 12	+ 2.3	Ad.			59 52 5.3			
				M.		26	39 49 35.7		— 14.53	+ 0.05
				Ai. 2	1855	4	34.8	+ 0.4		
4961	6	14 57 29	+ 2.4	Ad.			39 49 35.6			
				Pi.			35 45 37.1	— 0.6	— 14.34	+ 0.00
				T.		3	36.1	+ 0.7		
				R.	1844	7	35.0	+ 0.0		
4980	5	15 0 45	+ 2.0	Ad.			35 45 35.8			
				Gr.		6	48 41 49.5	— 0.1	— 14.13	
				Ai.	1846	1	50.9	— 0.6		
				J.	1843	3	51.9	— 1.6		
				Ja.	1850	4	48 41 49.6	— 0.2		

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
4980	5	^h 15 ^m 0 ^s 45	+ 2.0	J. 2	1857	1	[°] 48 ['] 41 ["] 50.0	— 0.2		
5157	6.7	15 30 20	+ 2.1	Ad. Gr.		6	48 41 50.1			
				J.	1844	5	43 38 8.1	+ 0.2	—12.19	
				Ja.	1851	5	11.9	— 1.5		
				Ad.			8.6	— 0.2		
5287	6	15 49 56	+ 2.0	M.		34	43 38 10.2			
5310	6	15 53 45	+ 2.2	T.		4	43 33 4.8		—10.78	+ 0.07
				Ad.			37 2 43.6	+ 0.7	—10.50	+ 0.02
5316	6	15 55 4	+ 1.7	Gr.		6	37 2 44.3			
				J.	1846	5	50 17 5.4	— 0.1	—10.40	
				Ou.	1849	(25)	5.7	— 1.6		
				Ja.	1851	4	4.9	+ 0.0		
				Ad.			1.9	— 0.2		
5336	6	15 58 9	+ 2.2	Lal.	1794	1	50 17 3.8			
				T.		3	37 1 26.5	— 1.0	—10.17	— 0.03
				Ad.			20.7	+ 0.7		
5385	5.4	16 3 49	+ 2.2	M.		32	37 1 21.4			
				J. 2	1857	5	36 51 6.0		— 9.74	+ 0.36
				Ad.			5.2	— 0.2		
5479	(5)	16 17 3	+ 2.3	Pi.			36 51 5.8			
				T.		5	34 8 3.4	— 0.8	— 8.71	— 0.08
				Ad.			7 59.6	+ 0.7		
5480	(5)	16 17 10	+ 2.3	T.		5	34 7 58.7			
				Ad.			34 2 1.4	+ 0.7	— 8.70	— 0.02
5574	6	16 32 52	+ 1.4	M.		85	34 2 2.1			
5575	6.5	16 32 54	+ 1.4	M.		91	53 11 4.4		— 7.45	0.00
5652	(6.7)	16 43 46	+ 2.3	M.		12	53 12 31.7		— 7.44	— 0.02
5752	6	16 56 46	+ 1.1	Gr.		6	30 12 35.0		— 6.55	+ 0.12
				Arg.	1830	8	56 53 46.5	+ 0.0	— 5.47	
				T.		4	47.9	— 0.4		
				Ai.	1843	4	48.8	+ 0.1		
				J.	1846	5	48.0	— 0.5		
				J. 2	1859	4	49.2	— 1.4		
				Ad.			48.9	+ 0.0		
5997	6.7	17 36 21	+ 1.8	Gr.		6	56 53 48.4			
				R.	1847	1	43 32 27.6	+ 0.2	— 2.07	
				J.	1847	6	35.3	— 0.5		
				Ja.	1850	4	32.7	— 1.5		
				Ad.			28.1	— 0.2		
6013	6	17 38 55	+ 1.8	Gr.		6	43 32 31.5			
				R.	1847	2	44 8 50.1	+ 0.2	— 1.84	
				J.	1846	5	52.9	— 0.5		
				Ja.	1850	4	53.8	— 1.5		
				Ad.			52.8	— 0.2		
6151	6	18 2 8	+ 2.4	M.		28	44 8 53.0			
				J. 2	1856	4	26 4 44.7		+ 0.19	+ 0.03
				Ad.			44.6	— 0.2		
6193	6.7	18 8 23	+ 2.0	Gr.		6	26 4 44.6			
				R.	1847	1	38 44 9.7	+ 0.2	+ 0.74	
				J.	1845	4	9.6	— 0.1		
				Ja.	1851	4	12.5	— 1.4		
				Ad.			10.7	— 0.2		
6224	5	18 13 5	+ 0.3	M.		171	38 44 11.1			
				J. 2	1856	5	64 20 58.7		+ 1.14	0.00
				Ai. 2	1857	12	59.2	+ 0.3		
				Ad.			59.9	— 0.2		
6235	5.4	18 14 55	+ 2.1	M.		54	64 20 58.8			
							36 0 12.1		+ 1.25	+ 0.04

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
6246	6	^h 18 ^m 16 ^s 38	+ 1.4	Gr.		6	51° 17' 14.3	— 0.2	+ 1.46	
				Ai.	1840	12	14.8	— 0.6		
				J.	1844	4	16.5	— 1.5		
				Ja.	1851	4	14.3	— 0.2		
				Ou.	1849	(39)	14.7	+ 0.0		
				Ad.			51 17 14.6			
6255	5	18 17 56	+ 1.5	Gr.		6	49 3 2.9	— 0.1	+ 1.57	
				R.	1843	3	5.0	— 0.9		
				Ai.	1842	12	6.4	— 0.6		
				J.	1848	4	7.9	— 1.6		
				Ja.	1850	4	6.2	— 0.2		
				Ou.	1849	(38)	7.6	+ 0.0		
				Ad.			49 3 7.5			
6258	6.7	18 18 10	+ 1.4	Gr.		5	51 14 2.9	— 0.2	+ 1.59	
				R.	1847	1	2.7	— 1.0		
				Ai.	1845	6	2.3	— 0.6		
				J.	1846	5	5.3	— 1.5		
				Ja.	1851	4	4.4	— 0.2		
				Ou.	1849	(41)	3.2	+ 0.0		
				Ad.			51 14 3.0			
6349	7	18 30 38	+ 2.0	M.		33	38 46 55.4		+ 2.67	— 0.04
				J. 2	1855	4	55.3	— 0.2		
				Ad.			38 46 55.4			
6392	5.4	18 39 55	+ 2.1	Br.	1755	2	37 27 32.5		+ 3.48	+ 0.02
				Str.	1830	6	34.6	+ 0.5		
				R.	1843	6	34.6	— 0.1		
				Ad.			37 27 35.7			
6394	6	18 39 57	+ 2.1	M.		24	37 26 57.2		+ 3.48	0.00
6419	6.7	18 43 34	+ 1.3	Gr.		6	52 50 4.2	— 0.2	+ 3.79	
				R.	1843	6	4.7	— 1.0		
				J.	1846	6	5.1	— 1.5		
				Ja.	1851	4	4.1	— 0.2		
				Ad.			52 50 3.6			
6421	7.8	18 43 51	+ 1.5	Gr.		6	49 16 36.1	— 0.1	+ 3.82	
				J.	1846	5	39.2	— 1.6		
				Ja.	1851	4	35.9	— 1.2		
				Ad.			49 16 37.3			
6428	6	18 44 33	+ 1.6	Gr.		6	48 36 23.8	+ 0.0	+ 3.87	
				R.	1847	1	27.0	— 0.8		
				Ai.	1840	11	26.6	— 0.5		
				J.	1844	3	28.7	— 1.6		
				Ja.	1851	4	28.5	— 0.2		
				Ou.	1849	(27)	28.1	+ 0.0		
				Ad.			48 36 28.2			
6452	6	18 48 25	+ 1.3	Gr.		6	52 47 26.7	— 0.2	+ 4.21	
				J.	1844	4	36.1	— 1.5		
				Ja.	1851	4	35.8	— 0.2		
				Ad.			52 47 37.9			
6456	(6)	18 48 48	+ 2.1	M.		40	36 47 50.1		+ 4.24	— 0.02
6466	(4.5)	18 49 34	+ 2.1	M.		55	36 43 18.1		+ 4.30	0.00
6468	(6.7)	18 49 43	+ 2.2	M.		7	33 47 27.6		+ 4.32	— 0.03
				Ja.	1850	4	26.8	— 0.2		
				Ad.			33 47 27.1			
6470	5	18 49 44	+ 1.5	Gr.		6	50 32 3.5	— 0.1	+ 4.32	
				R.	1841	3	4.2	— 0.9		
				J.	1845	5	5.6	— 1.6		
				Ja.	1851	4	3.0	— 0.2		
				Ou.	1849	(50)	50 32 3.9	+ 0.0		

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
6470	5	^h 18 ^m 49 ^s 44	^s + 1.5	Ad.			50° 32' 3.8"			
6476	6	18 51 4	+ 1.6	Gr.		6	48 41 9.5	+ 0.0	+ 4.43	— 0.12
				T.		4	7.1	+ 0.1		
				R.	1844	2	7.4	— 0.8		
				J.	1843	3	8.2	— 1.6		
6480	6	18 51 43	+ 2.2	Ad.			48 41 5.4			
				M.		20	32 43 21.5		+ 4.49	— 0.18
				Ja.	1850	4	21.8	— 0.2		
				J. 2	1856	4	22.8	— 0.2		
6491	3.4	18 53 40	+ 2.2	Ad.			32 43 21.8			
				M.		153	32 29 56.0		+ 4.65	0.00
				J. 2	1858	2	55.3	— 0.2		
6493	6	18 54 10	+ 2.0	Ad.			32 29 56.0			
				Gr.		6	40 29 14.6	+ 0.3	+ 4.69	
				Str.	1834	3	16.8	+ 0.5		
				J.	1844	4	16.4	— 1.5		
				Ja.	1850	4	16.3	— 0.2		
6495	6	18 54 27	+ 2.0	Ad.			40 29 16.4			
				Gr.		6	39 1 27.3	+ 0.3	+ 4.73	
				R.	1842	1	28.5	— 0.2		
				J.	1847	4	29.5	— 1.5		
				Ja.	1850	5	27.5	— 0.2		
6496	6	18 54 22	+ 1.0	Ad.			39 1 27.8			
6500	7	18 55 9	+ 1.0	M.		113	57 37 43.4		+ 4.71	— 0.07
				Gr.		6	58 1 54.6	+ 0.1	+ 4.78	— 0.06
				Str.	1830	5	55.2	— 0.3		
				T.		3	53.2	+ 0.1		
				R.	1843	3	56.1	— 1.3		
				J.	1847	4	57.1	— 1.3		
6516	6	18 57 15	+ 1.6	Ad.			58 1 55.6			
				Gr.		6	47 50 6.2	+ 0.0	+ 4.96	
				J.	1846	3	11.3	— 1.6		
				Ja.	1850	4	9.4	— 0.2		
6520	5	18 57 27	+ 1.7	Ad.			47 50 10.6			
				Gr.		12	46 44 15.8	+ 0.1	+ 4.97	— 0.06
				T.		3	12.7	+ 0.2		
				R.	1842	1	9.8	— 0.7		
				J.	1846	6	14.3	— 1.6		
				J. 2	1858	2	10.8	— 0.2		
6530	6.7	18 58 48	+ 1.4	Ad.			46 44 11.0			
				Gr.		6	52 3 28.0	— 0.2	+ 5.09	
				Str.	1828	4	27.2	— 0.4		
				Ai.	1841	13	27.9	— 0.6		
				J.	1845	3	30.0	— 1.5		
				Ja.	1851	4	26.7	— 0.2		
6534	(6)	18 59 35	+ 2.3	Ad.			52 3 27.4			
				Lal.	1794	1	31 32 21.0	— 1.4	+ 5.16	
				Ja.	1851	4	9.9	— 0.2		
6556	5	19 2 16	+ 2.1	Ad.			31 32 8.3			
6593	6.7	19 11 3	+ 2.0	M.		38	35 52 51.8		+ 5.38	— 0.02
				Gr.		11	40 6 54.3	+ 0.3	+ 6.12	
				R.	1846	1	50.6	— 0.2		
				J.	1842	4	55.9	— 1.5		
				Ja.	1850	4	52.3	— 0.2		
6599	4.5	19 11 28	+ 2.1	Ad.			40 6 52.9			
6601	5.6	19 11 24	+ 1.1	M.		50	37 53 4.9		+ 6.15	— 0.02
6623	4	19 13 50	+ 1.4	M.		65	57 27 44.7		+ 6.15	— 0.11
				M.		261	53 6 34.2		+ 6.35	+ 0.10

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
		^h ^m ^s	^s				[°] ['] ["]	["]		
6623	4	19 13 50	+ 1.4	Ai. 2	1856	14	53 6 34.5	— 0.6		
				Ad.			53 6 34.2			
6624	6.7	19 14 15	+ 2.0	Gr.		6	40 6 7.8	+ 0.3	+ 6".38	
				J.	1842	3	9.9	— 1.5		
				Ja.	1851	4	9.6	— 0.2		
				Ad.			40 6 9.1			
6626	7	19 14 52	+ 1.6	Gr.		6	49 18 31.9	— 0.1	+ 6.44	
				R.	1843	1	33.5	— 0.9		
				J.	1846	5	36.2	— 1.6		
				Ja.	1850	5	32.8	— 0.2		
				Ad.			49 18 34.4			
6640	6	19 17 41	+ 1.1	Gr.		6	57 22 44.3	+ 0.1	+ 6.66	
				R.	1840	2	47.4	— 1.3		
				J.	1845	12	45.3	— 1.3		
				Ja.	1851	4	47.1	— 0.2		
				Ad.			57 22 44.6			
6648	5	19 18 34	+ 2.4	M.		39	29 20 53.9		+ 6.74	+ 0.04
6659	7.8	19 19 42	+ 1.6	Gr.		7	49 59 47.6	— 0.1	+ 6.84	— 0.10
				T.		6	49.2	+ 0.1		
				Ai.	1843	4	50.2	— 0.6		
				J.	1847	4	51.2	— 1.6		
				Ou.	1849	(43)	49.1	+ 0.0		
				Ad.			49 59 50.0			
6673	(7)	19 22 39	+ 2.4	Lal.	1794	1	29 9 57.6	— 1.5	+ 7.07	
				T.		3	55.6	+ 0.5		
				Ad.			29 9 56.1			
6681	8	19 23 14	+ 1.1	Gr.		6	57 44 36.3	+ 0.1	+ 7.12	— 0.08
				T.		4	39.2	+ 0.1		
				R.	1844	2	40.4	— 1.3		
				J.	1847	6	40.7	— 1.3		
				Ad.			57 44 40.4			
6697	4	19 26 9	+ 1.5	Br.	1755	34	51 25 37.8		+ 7.36	+ 0.10
				Gr.		107	44.0	— 0.2		
				T.		5	46.1	+ 0.0		
				Ai.	1839	44	49.0	— 0.6		
				J.*	1844	6	50.0	— 1.5		
				Ai. 2	1856	8	50.2	— 0.6		
				J. 2	1858	5	50.5	— 0.2		
				Ad.			51 25 50.7			
6711	6.7	19 28 41	+ 2.1	Gr.		6	38 27 22.8	+ 0.2	+ 7.57	
				R.	1845	6	24.5	— 0.1		
				J.	1848	3	26.4	— 1.4		
				Ja.	1850	4	24.1	— 0.2		
				Ad.			38 27 24.9			
6717	7	19 29 49	+ 1.7	Gr.		11	48 57 22.9	+ 0.0	+ 7.66	
				R.	1847	1	25.5	— 0.8		
				J.	1844	3	25.7	— 1.6		
				Ja.	1850	4	24.6	— 0.2		
				Ad.			48 57 24.8			
6718	6	19 30 5	+ 2.0	Gr.		6	42 6 18.8	+ 0.3	+ 7.68	
				R.	1844	2	20.4	— 0.4		
				J.	1846	4	22.5	— 1.5		
				Ja.	1850	4	20.4	— 0.2		
				Ad.			42 6 21.1			
6722	6	19 30 44	+ 2.2	M.		22	36 38 1.3		+ 7.74	+ 0.01
6723	6	19 30 41	+ 1.6	Gr.		6	50 56 17.1	— 0.1	+ 7.73	— 0.10
				T.		2	12.4	+ 0.1		
				Ou.	1849	(22)	50 56 10.9	+ 0.0		

* Omitting S. P. Observations

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
6723	6	^h 19 ^m 30 ^s 41	+ 1.6	J.	1842	4	50° 56' 13.7	— 1.6		
				Gr.	1859	3	7.9	— 0.2		
6730	8	19 32 9	+ 1.6	Ad.			50 56 8.5		+ 7.85	+ 0.05
				M.		22	49 55 25.8			
				Ai. 2	1855	2	26.9	— 0.6		
6734	5.4	19 32 40	+ 1.6	Ad.			49 55 25.9		+ 7.89	+ 0.25
				M.		274	49 53 46.0			
				J. 2	1856	3	46.1	+ 0.2		
				Ai. 2	1855	3	45.9	— 0.6		
6741	7	19 34 2	+ 1.7	Ad.			49 53 46.0		+ 8.00	
				Gr.		5	48 57 25.6	+ 0.0		
				T.		3	22.7	+ 0.1		
				R.	1842	2	30.1	— 0.8		
				J.	1844	5	32.7	— 1.6		
				J. 2	1859	6	32.8	— 0.2		
6745	6.5	19 34 51	+ 2.0	Ad.			48 57 33.0		+ 8.07	+ 0.04
				M.		28	42 29 40.0			
				Ai. 2	1856	11	38.9	+ 0.3		
6754	6.5	19 36 29	+ 1.8	Ad.			42 29 39.7		+ 8.19	
				Gr.		6	45 11 28.5	+ 0.1		
				J.	1844	4	33.2	— 1.6		
				Ja.	1850	3	31.9	— 0.2		
6763	6	19 38 4	+ 1.6	Ad.			45 11 32.7		+ 8.32	— 0.15
				M.		82	50 11 58.0			
				Ai. 2	1856	17	58.0	— 0.6		
				J. 2	1857	3	57.4	— 0.2		
6764	6.7	19 38 7	+ 1.6	Ad.			50 11 57.8		+ 8.33	— 0.15
				M.		55	50 11 31.0			
				Ai. 2	1856	16	31.1	— 0.6		
				J. 2	1858	1	31.0	— 0.2		
6765	6.5	19 38 13	+ 2.1	Ad.			50 11 30.8		+ 8.34	
				Gr.		6	38 20 14.6	+ 0.2		
				R.	1846	1	12.2	— 0.1		
				J.	1844	3	18.4	— 1.4		
				Ja.	1850	4	15.2	— 0.2		
6769	6	19 39 3	+ 2.0	Ad.			38 20 16.1		+ 8.40	
				Gr.		6	41 26 10.2	+ 0.3		
				J.	1846	3	13.3	— 1.5		
				Ja.	1850	4	11.6	— 0.2		
6777	6	19 40 36	+ 2.2	Ad.			41 26 12.0		+ 8.53	
				Str.	1824	6	34 40 16.8	+ 0.5		
				T.		3	16.2	+ 0.7		
6780	6	19 40 28	+ 1.2	Ad.			34 40 17.2		+ 8.51	
				Gr.		6	57 40 54.4	+ 0.1		
				R.	1847	1	54.5	— 1.3		
				J.	1846	7	55.3	— 1.3		
				Ja.	1851	4	53.0	— 0.2		
6784	5.6	19 41 5	+ 2.3	Ad.			57 40 53.3		+ 8.56	— 0.43
				M.		44	33 24 7.2			
				J. 2	1856	2	7.0	— 0.2		
6799	6	19 43 20	+ 1.8	Ad.			33 24 7.2		+ 8.74	
				Gr.		4	47 33 37.6	+ 0.0		
				J.	1847	8	38.9	— 1.6		
				Ja.	1851	4	38.0	— 0.2		
6800	7	19 43 28	+ 2.3	Ad.			47 33 37.5		+ 8.75	— 0.06
				Lal.	1798	1	33 5 17.8	— 1.4		
				T.		3	11.5	+ 0.7		
				J. 2	1856	5	12.3	+ 0.1		

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		^h ^m ^s	^s				[°] ['] ["]			
6800	7	19 43 28	+ 2.3	Ad.			33 5 12.3			
6806	6	19 44 28	+ 2.1	Gr.		6	38 21 25.7	+ 0.2	+ 8.83	— 0.05
				T.		3	24.9	+ 0.7		
				J.	1847	4	28.1	— 1.4		
				J. 2	1857	3	26.0	— 0.2		
				Ad.			38 21 26.5			
6813	6	19 45 34	+ 2.1	Gr.		5	38 21 35.6	+ 0.2	+ 8.91	+ 0.13
				J.	1845	3	42.7	— 1.4		
				Ja.	1851	5	40.4	— 0.2		
				J. 2	1857	1	42.0	— 0.2		
				Ad.			38 21 42.0			
6817	6	19 45 47	+ 2.1	Gr.		6	40 14 35.0	+ 0.3	+ 8.93	
				Ai.	1842	6	35.4	+ 0.4		
				J.	1843	5	36.0	— 1.5		
				Ja.	1850	4	34.0	— 0.2		
				Ad.			40 14 34.9			
6824	5.6	19 47 5	+ 1.5	M.		80	52 37 52.8		+ 9.03	— 0.08
				Ai. 2	1856	4	53.4	— 0.6		
				Ad.			52 37 52.8			
6830	6	19 47 58	+ 1.8	Gr.		6	47 34 8.6	+ 0.0	+ 9.10	
				J.	1842	3	10.4	— 1.6		
				Ja.	1850	4	10.5	— 0.2		
				Ad.			47 34 9.7			
6849	5.6	19 50 49	+ 2.1	M.		35	38 6 50.7		+ 9.32	— 0.01
6856	5	19 51 59	+ 1.6	M.		33	52 3 57.8		+ 9.41	— 0.01
6857	6.5	19 52 20	+ 2.1	Gr.		6	39 59 26.5	+ 0.3	+ 9.44	
				J.	1846	3	28.8	— 1.5		
				Ja.	1850	6	25.8	— 0.2		
				Ad.			39 59 26.6			
6860	7	19 52 26	+ 2.1	Pi.			38 4 51.5	— 0.5	+ 9.44	— 0.05
				T.		4	49.2	+ 0.7		
				Ad.			38 4 49.2			
6862	7	19 52 28	+ 1.0	Gr.		6	60 14 28.5	+ 0.2	+ 9.45	
				J.	1848	4	30.0	— 1.2		
				Ja.	1851	4	27.4	— 0.2		
				Ad.			60 14 27.8			
6865	6	19 52 54	+ 1.6	Gr.		6	50 31 28.0	— 0.1	+ 9.49	
				Ai.	1843	6	29.8	— 0.6		
				J.	1844	4	31.8	— 1.6		
				Ja.	1851	4	29.5	— 0.2		
				Ou.	1849	(22)	30.2	+ 0.0		
				Ad.			50 31 30.3			
6875	6.5	19 54 41	+ 2.2	M.		19	36 39 29.3		+ 9.62	+ 0.03
				J. 2	1855	3	31.5	— 0.2		
				Ad.			36 39 29.8			
6895	6.5	19 57 22	+ 1.7	M.		41	49 42 48.6		+ 9.83	— 0.01
				Ai. 2	1856	9	49.0	— 0.6		
				Ad.			49 42 48.5			
6928	6.5	20 2 30	+ 1.6	Fed.	1790	1	52 44 46.0	— 0.4	+ 10.22	
				Gr.		6	47.6	— 0.2		
				J.	1843	4	57.8	— 1.5		
				Ja.	1851	4	52 44 58.6	— 0.2		
				Ad.			52 45 0.2			
6930	6	20 2 58	+ 0.8	Gr.		6	63 29 1.9	+ 0.5	+ 10.25	
				Str.	1829	5	4.4	+ 0.0		
				J.	1845	5	5.6	— 0.9		
				Ja.	1851	4	6.6	— 0.2		
				Ad.			63 29 5.9			

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
		^h ^m ^s	^s				[°] ['] ["]		["]	["]
6937	5	20 4 12	+ 2.2	M.		43	36 25 36.6		+ 10.34	+ 0.05
6940	6	20 4 40	+ 2.5	M.		32	26 29 20.7		+ 10.39	+ 0.03
6943	6	20 5 54	+ 2.5	M.		45	26 23 26.5		+ 10.47	- 0.03
6959	6	20 8 36	+ 1.7	Gr.		6	51 2 26.0	- 0.2	+ 10.67	
				J.	1843	4	28.0	- 1.5		
				Ja.	1851	4	26.8	- 0.2		
				Ad.			51 2 26.8			
6962	4	20 8 52	+ 1.9	M.		30	46 23 25.7		+ 10.69	- 0.02
6963	6	20 8 58	+ 2.0	Gr.		6	42 57 11.4	+ 0.3	+ 10.70	
				J.	1846	3	12.5	- 1.5		
				Ja.	1849	5	10.7	- 0.2		
				Ai. 2	1855	4	10.0	+ 0.2		
				Ad.			42 57 10.3			
6965	4	20 9 12	+ 1.9	M.		71	46 18 54.5		+ 10.71	0.00
				Ai. 2	1855	2	55.3	- 0.3		
				Ad.			46 18 54.5			
6967	5	20 9 15	+ 2.2	M.		24	36 22 35.2		+ 10.72	+ 0.09
				J. 2	1855	4	35.3	- 0.2		
				Ad.			36 22 35.2			
6969	(7.8)	20 9 23	+ 2.2	M.		8	36 19 29.0		+ 10.73	+ 0.05
6973	5	20 9 56	+ 2.5	M.		22	27 23 2.7		+ 10.77	+ 0.01
6978	(6)	20 10 36	+ 2.5	M.		14	27 20 39.2		+ 10.82	+ 0.01
6983	4.5	20 11 7	+ 1.9	M.		68	47 16 56.8		+ 10.86	- 0.01
6985	6.7	20 11 37	+ 1.7	Gr.		6	49 47 58.6	- 0.1	+ 10.90	
				J.	1847	3	60.5	- 1.6		
				Ja.	1851	4	60.1	- 0.2		
				Ad.			49 47 59.5			
6986	6	20 11 54	+ 2.1	M.		16	39 55 49.7		+ 10.92	- 0.02
				Ja.	1851	4	49.5	- 0.2		
				J. 2	1857	2	50.0	+ 0.0		
				Ad.			39 55 49.7			
6990	5	20 12 35	+ 2.2	M.		20	37 35 47.4		+ 10.97	- 0.01
				J. 2	1855	2	46.0	+ 0.1		
				Ad.			37 35 47.2			
6996	6	20 13 7	+ 2.1	M.		20	40 17 39.8		+ 11.00	+ 0.01
6997	6	20 13 12	+ 2.2	M.		16	36 33 36.0		+ 11.01	0.00
7006	7	20 14 32	+ 2.2	Ja.	1851	5	36 41 25.4	- 0.2	+ 11.11	+ 0.01
				J. 2	1855	4	26.2	+ 0.1		
				Ad.			36 41 26.1			
7008	6.7	20 15 8	+ 2.2	Gr.		6	38 57 37.0	+ 0.2	+ 11.15	
				Str.	1830	6	38.1	+ 0.5		
				J.	1850	4	37.9	- 1.4		
				Ja.	1851	5	37.6	- 0.2		
				Ad.			38 57 36.5			
7022	3.2	20 17 10	+ 2.2	M.		338	39 48 26.5		+ 11.30	+ 0.02
				J. 2	1857	9	26.8	+ 0.1		
				Ad.			39 48 26.5			
7024	6	20 17 15	+ 1.0	M.		53	61 48 36.3		+ 11.30	- 0.01
7029	5	20 18 14	+ 2.4	M.		39	31 44 13.7		+ 11.37	+ 0.01
7035	6.7	20 19 22	+ 1.5	Gr.		6	54 13 9.5	- 0.1	+ 11.46	
				J.	1849	5	11.1	- 1.5		
				Ja.	1851	4	9.7	- 0.2		
				Ad.			54 13 9.6			
7055	7	20 21 53	+ 1.6	Gr.		6	54 13 25.1	- 0.1	+ 11.64	
				J.	1846	3	26.0	- 1.5		
				Ja.	1851	3	(48.9)	- 0.2		
				Ad.			54 13 24.3			
7062	6	20 22 44	+ 1.8	M.		116	48 55 0.7		+ 11.70	+ 0.03

B. A. C.	Mag.	α 1859.0.			Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
7062	6	^h 20	^m 22	^s 44	+ 1.8	Ai. 2	1856	8	48° 55' 1.7"	— 0.6		
7073	6	20	23	58	+ 2.3	Ad.		22	48 55 0.8		+ 11.79	0.00
7076	7	20	24	10	+ 1.9	M.		1	35 59 9.9		+ 11.80	
						Lal.		1	48 27 4.0	— 0.5		
						T.		1	3.6	+ 0.1		
						J.	1847	3	7.3	— 1.6		
						Ad.			48 27 5.7			
7083	6.7	20	25	19	+ 2.0	Gr.		6	45 26 54.5	+ 0.1	+ 11.88	
						R.	1847	1	59.1	— 0.6		
						J.	1848	4	64.4	— 1.6		
						Ja.	1851	5	45 26 62.8	— 0.2		
						Ad.			45 27 4.0			
7084	(7.8)	20	25	38	+ 2.3	M.		17	36 27 46.0		+ 11.90	0.00
7085	5	20	25	41	+ 1.9	M.		80	48 28 44.7		+ 11.91	0.00
7091	6.5	20	26	58	+ 1.8	M.		52	48 44 44.9		+ 12.00	— 0.04
7100	7	20	27	58	+ 2.1	Gr.		6	42 42 43.8	+ 0.3	+ 12.07	
						J.	1849	4	47.4	— 1.5		
						Ja.	1850	4	44.6	— 0.2		
						Ad.			42 42 45.7			
7101	7	20	27	59	+ 2.1	Gr.		6	40 59 32.7	+ 0.3	+ 12.07	
						J.	1846	3	37.2	— 1.5		
						Ja.	1850	5	35.5	— 0.2		
						Ad.			40 59 36.2			
7103	5.6	20	28	25	+ 2.3	M.		24	34 46 11.3		+ 12.10	— 0.03
7105	6	20	28	20	+ 1.5	Gr.		6	56 18 6.8	+ 0.0	+ 12.10	+ 0.03
						T.		2	7.9	+ 0.1		
						J.	1845	5	8.0	— 1.4		
						Ad.			56 18 6.8			
7112	6	20	29	17	+ 2.0	Gr.		6	46 12 40.6	+ 0.1	+ 12.16	
						J.	1845	4	42.5	— 1.6		
						Ja.	1851	3	41.3	— 0.2		
						Ad.			46 12 41.1			
7114	6.7	20	29	31	+ 2.2	Gr.		6	40 36 48.9	+ 0.3	+ 12.17	
						J.	1847	3	51.6	— 1.5		
						Ja.	1851	3	50.9	— 0.2		
						Ad.			40 36 50.6			
7131	6	20	31	48	+ 2.4	M.		21	31 4 54.8		+ 12.33	— 0.05
7132	(7)	20	31	49	+ 2.4	M.		19	31 1 58.5		+ 12.33	— 0.02
7153	7	20	33	12	+ 1.7	Gr.		6	52 28 54.9	— 0.2	+ 12.43	
						J.	1850	5	55.4	— 1.5		
						Ja.	1851	4	55.2	— 0.2		
						Ad.			52 28 54.1			
7161	7	20	34	38	+ 2.0	Br.	1755	2	45 10 12.6	+ 0.0	+ 12.53	
						J.	1847	4	13.9	— 1.6		
						Ja.	1850	4	12.6	— 0.2		
						Ad.			45 10 12.3			
7166	6.7	20	35	21	+ 1.6	Gr.		6	55 30 34.5	+ 0.0	+ 12.58	
						J.	1846	5	33.7	— 1.4		
						Ja.	1851	4	32.8	— 0.2		
						Ad.			55 30 31.8			
7171	2.1	20	36	38	+ 2.0	Br.	1755	50	44 46 41.5		+ 12.66	0.00
						Str.	1830	☉	41.3	+ 0.0		
						Arg.	1830	240	41.8	— 0.3		
						Airy	1840	74	41.5	— 0.1		
						Chal.	1840	188	42.2	— 1.2		
						Hend.	1840	71	41.8	— 0.6		
						Airy	1845	69	41.5	— 0.1		
						J.	1846	29	44 46 42.4	— 1.5		

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7171	2.1	^h 20 ^m 36 ^s 38	+ 2.0	Airy	1850	106	[°] 44 ['] 46 ["] 41.4	— 0.1		
				J. 2	1854	5	38.9	— 0.2		
				Airy	1856	43	40.8	— 0.1		
7174	6	20 36 51	+ 2.2	Ad. Gr.		6	44 46 41.2		+ 12.68	
				J.	1846	5	41 12 48.2	+ 0.3		
				Ja.	1851	4	51.2	— 1.5		
				Ad.			49.0	— 0.2		
7176	6	20 37 18	+ 1.3	Gr.		6	41 12 49.7		+ 12.71	
				J.	1846	5	59 59 38.0	+ 0.2		
				Ja.	1851	3	45.6	— 1.2		
				Ad.			45.4	— 0.2		
7193	6	20 39 39	+ 1.3	Gr.		6	59 59 46.6		+ 12.86	
				J.	1847	7	60 5 40.3	+ 0.2		
				Ja.	1851	4	39.0	— 1.2		
				Ad.			39.9	— 0.2		
7198	6	20 39 57	+ 2.0	Gr.		6	60 5 37.5		+ 12.89	
				J.	1844	4	46 47 11.3	+ 0.1		
				Ja.	1850	4	12.5	— 1.6		
				Ad.			12.4	— 0.2		
7204	3.2	20 40 30	+ 2.4	M.		86	46 47 11.3		+ 12.92	+ 0.33
				J. 2	1859	7	33 26 39.0	— 0.2		
				Ad.			38.6			
7218	6.7	20 42 16	+ 1.7	Gr.		6	33 26 38.9		+ 13.04	
				J.	1848	4	52 29 7.1	— 0.2		
				Ja.	1851	5	2.6	— 1.5		
				Ad.			52 29 0.5	— 0.2		
7219	7	20 42 30	+ 2.1	Gr.		6	52 28 59.2		+ 13.06	
				R.	1843	6	45 3 47.5	+ 0.1		
				J.	1847	4	47.6	— 0.6		
				Ja.	1850	4	49.8	— 1.6		
				Ad.			48.4	— 0.2		
7233	6.5	20 44 8	+ 2.0	M.		34	45 3 47.9		+ 13.16	— 0.02
7241	5.6	20 45 4	+ 2.1	M.		55	45 35 32.0		+ 13.23	+ 0.12
				J. 2	1857	9	43 31 46.6	— 0.2		
				Ad.			47.5			
7243	6.7	20 45 10	+ 1.9	Gr.		6	43 31 47.0		+ 13.23	
				J.	1845	3	50 15 35.4	— 0.1		
				Ja.	1851	4	37.6	— 1.6		
				Ou.	1849	(16)	36.7	— 0.2		
				Ad.			36.4	+ 0.0		
7246	5	20 46 6	+ 2.6	M.		24	50 15 36.6		+ 13.29	— 0.06
7253	5.6	20 48 16	+ 2.1	M.		65	26 34 17.2		+ 13.44	+ 0.01
				Ja.	1850	4	43 51 17.8	— 0.2		
				Ad.			17.3			
7259	7.8	20 48 54	+ 2.1	M.		18	43 51 17.7		+ 13.48	+ 0.01
				Ja.	1850	3	43 51 8.3	— 0.2		
				Ad.			9.0			
7260	6.7	20 49 6	+ 2.2	Gr.		6	43 51 8.4	+ 0.3	+ 13.49	
				R.	1844	2	40 10 4.8	— 0.4		
				J.	1846	5	2.8	— 1.5		
				Ja.	1850	3	7.4	— 0.2		
				Ad.			5.2			
7268	6	20 51 4	+ 2.0	Br.	1755	1	40 10 5.3		+ 13.62	
				J.	1848	3	46 52 38.8	— 1.6		
				Ja.	1850	5	45.2	— 0.2		
				J. 2	1856	6	44.0	— 0.2		
				Ad.			43.0			
							46 52 43.3			

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
7273	6	^h 20 ^m 51 ^s 36	+ 2.1	Gr.		6	44° 23' 1.9"	+ 0.2	+ 13.65	
				J.	1843	6	3.2	- 1.5		
				Ja.	1850	4	3.8	- 0.2		
				Ad.			44 23 2.2			
7274	6.7	20 51 49	+ 2.0	Br.	1755	1	48 39 18.6		+ 13.66	
				J.	1848	3	17.6	- 1.6		
				Ja.	1850	5	16.7	- 0.2		
				Ad.			48 39 16.0			
7290	6	20 53 17	+ 2.2	M.		4	43 55 27.8		+ 13.76	+ 0.08
				Ja.	1851	3	26.9	- 0.2		
				J. 2	1856	4	26.3	- 0.2		
				Ad.			43 55 26.7			
7294	6	20 53 59	+ 1.9	Gr.		6	49 54 55.4	- 0.1	+ 13.81	- 0.10
				Str.	1823	7	55.7	- 0.4		
				T.		3	54.9	+ 0.1		
				R.	1843	2	57.8	- 0.9		
				J.	1843	3	57.4	- 1.6		
				Ad.			49 54 56.3			
7297	6.7	20 54 31	+ 2.3	Gr.		6	39 41 57.2	+ 0.3	+ 13.84	
				J.	1849	2	42 8.7	- 1.5		
				Ja.	1850	4	5.8	- 0.2		
				Ad.			39 42 8.6			
7301	5.6	20 55 2	+ 2.0	M.		50	46 58 18.4		+ 13.87	- 0.02
7306	6	20 56 16	+ 2.1	M.		38	45 36 11.9		+ 13.95	0.00
7317	6	20 57 22	+ 2.1	Gr.		6	44 14 10.6	+ 0.2	+ 14.02	
				J.	1844	3	11.4	- 1.5		
				Ja.	1850	4	10.7	- 0.2		
				Ad.			44 14 9.9			
7320	6.7	20 57 37	+ 2.3	M.		17	38 6 7.3		+ 14.03	+ 0.03
				J. 2	1855	6	6.4	- 0.2		
				Ad.			38 6 6.9			
7332	6	20 59 29	+ 1.8	Gr.		6	52 43 31.4	- 0.2	+ 14.15	
				J.	1843	3	32.0	- 1.5		
				Ja.	1850	4	32.5	- 0.2		
				Ad.			52 43 31.2			
7337	6.7	21 0 36	+ 2.7	Br.	1755	1	37 58 7.7		+ 14.22	+ 3.04
				Arg.	1830	33	38 1 55.9	+ 0.0		
				R.	1846	3	2 43.4	- 0.1		
				Ai.	1840	31	2 25.4	+ 0.5		
				Ai.	1845	36	2 40.8	+ 0.5		
				J. 2	1855	4	3 11.0	- 0.2		
				Ai. 2	1850	35	2 56.4	+ 0.5		
				Ai. 2	1855	28	3 11.3	+ 0.5		
				Ad.			38 3 23.9			
7345	5.6	21 1 45	+ 2.1	M.		71	47 4 58.8		+ 14.29	- 0.01
				Ai. 2	1855	3	59.2	- 0.4		
				Ad.			47 4 58.8			
7365	6	21 5 54	+ 1.9	Gr.		8	52 59 19.7	- 0.2	+ 14.55	- 0.06
				T.		2	19.1	+ 0.0		
				R.	1843	2	21.7	- 1.0		
				J.	1844	4	19.8	- 1.5		
				Ad.			52 59 18.3			
7387	6.7	21 9 12	+ 1.5	Gr.		6	59 31 2.7	+ 0.2	+ 14.74	- 0.03
				T.		1	0.4	+ 0.2		
				R.	1843	1	30 58.3	- 1.4		
				J.	1847	5	31 2.2	- 1.2		
				J. 2	1858	3	0.4	+ 0.1		
				Ad.			59 31 0.0			

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
7398	4.5	^h 21 ^m 11 ^s 53	^s + 2.4	M.		85	[°] 38' 48" 20.1		+ 14.90	+ 0.03
7401	6	21 13 1	+ 1.8	Gr.		6	55 12 23.4	+ 0.0	+ 14.96	- 0.11
				T.		2	23.2	+ 0.1		
				R.	1844	6	26.2	- 1.2		
				J.	1845	4	24.6	- 1.4		
				Ad.			55 12 24.2			
7402	5	21 13 12	+ 2.2	M.		11	43 21 14.7		+ 14.97	- 0.02
				Ja.	1850	4	14.2	- 0.2		
				Ad.			43 21 14.5			
7411	5.6	21 14 37	+ 2.1	Gr.		6	48 54 53.9	+ 0.0	+ 15.06	
				J.	1844	3	56.2	- 1.6		
				Ja.	1850	4	55.6	- 0.2		
				Ad.			48 54 55.3			
7431	6.5	21 17 6	+ 2.1	Gr.		6	48 47 4.9		+ 15.20	
				J.	1843	4	11.2	- 1.6		
				Ja.	1850	4	9.2	- 0.2		
				Ad.			48 47 11.2			
7449	7	21 19 26	+ 1.3	Pi.			63 37 13.4	+ 0.4	+ 15.33	+ 0.13
				T.		3	17.6	+ 0.3		
				J.	1847	3	19.0	- 0.9		
				Ad.			63 37 19.5			
7455	6	21 20 8	+ 2.2	M.		14	46 6 17.7		+ 15.37	+ 0.03
7461	6.5	21 21 28	+ 2.6	M.		19	26 59 47.0		+ 15.44	+ 0.02
				J. 2	1855	5	47.5	- 0.2		
				Ad.			26 59 47.1			
7462	6.5	21 21 37	+ 2.4	T.			36 30 19.2	+ 0.7	+ 15.45	- 0.02
				Ad.			36 30 19.9			
7465	6	21 22 7	+ 2.6	T.			31 36 33.5	+ 0.6	+ 15.48	+ 0.09
				Ad.			31 36 34.1			
7469	7	21 22 20	+ 2.2	Pi.			45 48 13.2	+ 0.0	+ 15.50	- 0.05
				T.			13.0	+ 0.2		
				Ai.	1847	2	15.8	- 0.3		
				J.	1850	4	16.4	- 1.6		
				Ad.			45 48 15.7			
7480	5	21 24 15	+ 2.2	M.		62	45 55 13.0		+ 15.60	+ 0.11
				J. 2	1857	5	12.3	- 0.2		
				Ai. 2	1855	3	12.3	- 0.3		
				Ad.			45 55 12.8			
7488	6.7	21 26 31	+ 2.0	Gr.		6	51 34 17.8	- 0.2	+ 15.73	
				J.	1847	4	23.0	- 1.5		
				Ja.	1850	4	22.1	- 0.2		
				Ou.	1849	(16)	22.0	+ 0.0		
				Ad.			51 34 22.8			
7501	7	21 28 1	+ 2.2	J.	1850	2	45 13 48.6	- 1.6	+ 15.80	+ 0.06
				Ja.	1850	4	48.1	- 0.2		
				Ad.			45 13 47.5			
7503	4.5	21 28 41	+ 2.2	M.		51	44 58 11.0		+ 15.84	- 0.10
7505	5	21 29 1	+ 2.4	M.		35	37 54 12.4		+ 15.86	+ 0.10
				J. 2	1858	2	13.7	- 0.2		
				Ad.			37 54 12.5			
7512	6.7	21 29 36	+ 2.1	Gr.		6	51 4 15.9	- 0.2	+ 15.89	
				J.	1845	3	17.9	- 1.5		
				Ja.	1850	3	16.9	- 0.2		
				Ou.		(16)	17.1	+ 0.0		
				Ad.			51 4 17.1			
7521	5	21 31 18	+ 2.4	M.		33	39 46 54.4		+ 15.98	+ 0.01
7524	6.7	21 32 6	+ 2.4	Gr.		6	38 41 1.3	+ 0.2	+ 16.02	- 0.14
				T.		3	38 41 1.3	+ 0.7		

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
7524	6.7	^h 21 ^m 32 ^s 6	+ 2.4	J.	1846	3	38° 41' 4.3	— 1.4		
7533	7	21 33 25	+ 1.6	Ad. Gr. T. J. J. 2	1843 1857	3 4 3 4	38 41 3.4 61 39 49.9 55.2 55.8 55.5	+ 0.4 + 0.2 — 1.0 + 0.2	+ 16.09	
7542	5.6	21 34 8	+ 1.6	Ad. M.		55	61 39 56.2 61 26 48.4		+ 16.14	0.00
7544	6.5	21 34 39	+ 2.3	M. Ai. 2	1855	30 10	42 38 6.6 6.3	+ 0.3	+ 16.15	+ 0.02
7554	6	21 35 54	+ 2.4	Ad. M.		37	42 38 6.6 40 9 59.6		+ 16.22	— 0.06
7560	5.4	21 37 5	+ 2.1	M.		113	50 32 50.1		+ 16.28	0.00
7565	5.6	21 37 26	+ 2.4	M.		27	40 30 43.7		+ 16.30	+ 0.02
7571	4	21 38 16	+ 2.7	M.		33	24 59 57.0		+ 16.34	+ 0.03
7584	7	21 39 33	+ 2.7	Lal. R. J. 2	1794 1843 1854	2 1 3	24 56 11.8 3.6 6.1	— 1.6 + 0.6 — 0.2	+ 16.41	— 0.11
7586	7	21 39 59	+ 2.7	Ad. M. J. 2		8 2	24 56 4.9 24 54 44.8 42.2	— 0.2	+ 16.43	+ 0.04
7602	6	21 42 28	+ 2.5	Ad. Gr. J. Ja. Ad.	1857 1846 1850	2 6 3 4	24 54 43.9 38 18 7.7 12.0 10.2	+ 0.2 + 0.2 — 1.4 — 0.2	+ 16.55	
7607	5	21 43 37	+ 2.6	Ad. M.		34	38 18 11.2 29 31 10.1		+ 16.61	— 0.02
7612	6.7	21 45 3	+ 2.1	Gr. J. Ja. Ou. Ad.	1845 1850	6 4 4 (3)	52 2 24.0 25.4 23.3 23.0	— 0.2 — 1.5 — 0.2 + 0.0	+ 16.68	
7614	6	21 45 15	+ 2.5	Gr. J. Ja. Ad.	1847 1850	6 4 4	52 2 23.3 38 52 37.9 41.1 39.8	+ 0.2 + 0.2 — 1.4 — 0.2	+ 16.69	
7637	7	21 48 23	+ 2.1	Ad. M.		15	38 52 40.2 53 (19 53.7)		+ 16.84	— 0.05
7646	6.7	21 50 33	+ 2.1	Gr. J. Ja. Ad.	1845 1850	12 4 4	52 34 30.2 31.6 32.2	— 0.2 — 1.5 — 0.2	+ 16.94	
7668	6.7	21 54 40	+ 2.0	Ad. M. J. 2	1857	15 4	52 34 31.0 56 59 2.3 3.6	+ 0.0	+ 17.13	— 0.02
7679	6.7	21 56 57	+ 2.5	Ad. Gr. J. Ja. Ad.	1846 1850	6 3 4	56 59 2.8 42 8 3.9 7.8 5.3	+ 0.3 + 0.3 — 1.5 — 0.2	+ 17.24	
7683	6	21 57 20	+ 2.0	Ad. M.		33	42 8 6.3 57 19 14.8		+ 17.25	— 0.01
7705	6.5	22 0 18	+ 2.4	Gr. T. J. J. 2	1849 1857	6 4 3 2	44 19 46.1 47.3 48.7 47.3	+ 0.2 + 0.4 — 1.5 — 0.2	+ 17.39	— 0.10
7718	6.7	22 2 25	+ 2.0	Ad. Gr. T. R. Ai.	1843 1843	6 2 1 6	44 19 47.5 58 9 14.2 13.0 13.8 58 9 12.4	+ 0.1 + 0.1 — 1.3 — 0.4	+ 17.47	— 0.04

B. A. C.	Mag.	α 1859.0.			Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.			Systematic Correction.	Precession.	Proper Motion.
		^h ^m ^s			^s				[°] ['] ["]					
7718	6.7	22	2	25	+ 2.0	J. Ad.	1844	3	58° 9' 14.5"			— 1.3		
7721	(5.6)	22	2	59	+ 2.7	M.		43	58 9 11.8				+ 17.50	0.00
7727	6.7	22	3	6	+ 2.4	Gr.		6	32 29 6.4			+ 0.0	+ 17.51	
						Ai.	1843	7	47 14 40.9			— 0.4		
						J.	1845	3	41.1			— 1.6		
						Ja.	1850	4	41.8			— 0.2		
						Ad.			47 14 40.4					
7731	4	22	3	44	+ 2.7	M.		42	32 29 15.3				+ 17.53	0.00
7736	7	22	3	50	+ 2.0	Pi.			58 36 12.0			+ 0.3	+ 17.53	+ 0.01
						J.	1847	3	13.0			— 1.3		
						J. 2	1856	1	12.0			+ 0.1		
						Ad.			58 36 11.7					
7737	7	22	3	55	+ 2.5	Gr.		6	42 29 42.1			+ 0.3	+ 17.54	— 0.01
						T.		4	45.0			+ 0.5		
						J.	1843	3	45.1			— 1.5		
						Ai. 2	1856	2	42.0			+ 0.3		
						Ad.			42 29 44.3					
7743	6.7	22	5	12	+ 2.5	Gr.		6	42 20 16.7			+ 0.3	+ 17.60	
						J.	1845	5	19.5			— 1.5		
						Ja.	1850	4	17.2			— 0.2		
						Ad.			42 20 17.9					
7755	6.5	22	6	44	+ 2.0	M.		31	58 43 9.7				+ 17.65	— 0.06
						J. 2	1857	4	10.1			+ 0.1		
						Ad.			58 43 9.7					
7765	5	22	7	50	+ 2.6	Gr.		6	39 0 58.6			+ 0.3	+ 17.71	
						Arg.	1830	8	60.6			— 0.1		
						T.		5	60.8			+ 0.6		
						J.	1850	2	60.8			— 1.5		
						Ad.			39 0 59.8					
7770	6	22	8	49	+ 2.5	Gr.		6	42 15 20.5			+ 0.3	+ 17.75	
						J.	1845	3	22.4			— 1.5		
						Ja.	1850	4	20.8			— 0.2		
						Ad.			42 15 20.8					
7777	5.4	22	9	50	+ 2.6	M.		42	37 2 52.3				+ 17.78	+ 0.01
7787	7	22	13	11	+ 2.3	Gr.		6	51 57 1.1			— 0.2	+ 17.91	
						J.	1842	5	4.1			— 1.5		
						Ja.	1850	4	2.1			— 0.2		
						Ou.	1849	(7)	2.5			+ 0.0		
						Ad.			51 57 2.9					
7820	5	22	18	48	+ 2.4	M.		37	48 45 44.2				+ 18.13	— 0.03
7824	6.7	22	19	25	+ 2.4	Gr.		6	50 32 21.6			— 0.1	+ 18.14	
						T.		4	24.0			+ 0.1		
						J.	1845	3	25.5			— 1.6		
						Ou.	1849	(18)	25.1			+ 0.0		
						Ad.			50 32 25.5					
7825	7.8	22	19	44	+ 2.4	Gr.		5	49 41 9.1			— 0.1	+ 18.15	
						T.		4	11.6			+ 0.1		
						J.	1846	3	11.7			— 1.6		
						Ad.			49 41 10.3					
7845	5	22	23	41	+ 2.5	M.		32	46 59 9.8				+ 18.31	— 0.01
						J. 2	1859	1	11.6			— 0.2		
						Ad.			46 59 9.9					
7850	5	22	24	24	+ 2.6	M.		67	42 24 5.9				+ 18.34	0.00
7855	4	22	25	29	+ 2.5	M.		152	49 33 29.8				+ 18.37	— 0.01
						J. 2	1857	2	29.9			— 0.1		
						Ad.			49 33 29.8					
7858	6	22	26	12	+ 2.6	Gr.		6	39 3 20.7			+ 0.3	+ 18.40	

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
7858	6	^h 22 ^m 26 ^s 12	+ 2.6	J. Ja. Ad.	1846 1850	3 4	[°] 39 ['] 3 21.1 20.8	— 1.5 — 0.2		
7879	7	22 29 35	+ 2.7	M. J. 2 Ad.	1859	16 3	39 3 19.7 38 53 56.7 56.9	— 0.2	+ 18.51	— 0.14
7880	6	22 29 36	+ 2.7	M. J. 2 Ad.	1858	66 1	38 53 56.7 38 54 21.1 20.5	— 0.2	+ 18.51	+ 0.01
7894	6.7	22 32 12	+ 2.6	Gr. T. J. Ad.	1845	6 3 4	38 54 21.1 44 27 2.9 3.7 6.3	+ 0.2 + 0.4 — 1.5	+ 18.60	
7906	5	22 34 20	+ 2.6	M. J. 2 Ai. 2 Ad.	1857 1857	68 3 12	44 27 5.5 43 32 27.4 28.0 28.1	— 0.2 + 0.1	+ 18.67	0.00
7913	7	22 35 1	+ 2.6	Gr. T. Ai. J. Ad.	1841 1845	6 2 1 3	43 32 27.6 44 16 19.6 21.0 20.9 22.9	+ 0.2 + 0.4 + 0.0 — 1.5	+ 18.69	
7917	6	22 35 18	+ 2.7	Gr. J. Ja. Ad.	1847 1850	6 4 4	44 16 22.0 40 48 35.6 40.4 38.9	+ 0.3 — 1.5 — 0.2	+ 18.70	
7948	6	22 39 55	+ 2.6	Gr. Ai. J. Ja. Ad.	1843 1846 1850	6 5 4 4	40 48 39.6 43 48 10.8 12.9 14.2 11.4	+ 0.2 + 0.0 — 1.5 — 0.2	+ 18.84	
7950	6	22 40 12	+ 2.6	Gr. T. J. J. 2 Ad.	1846 1857	12 3 6 3	43 48 13.0 45 28 28.6 28.2 30.1 29.0	+ 0.1 + 0.2 — 1.6 — 0.2	+ 18.85	
7972	6	22 45 41	+ 2.7	M. J. 2 Ai. 2 Ad.	1859 1855	29 5 2	45 28 28.6 42 33 49.9 51.0 49.5	— 0.2 + 0.2	+ 19.01	+ 0.01
7983	6	22 47 22	+ 2.7	Gr. J. Ja. Ad.	1845 1850	6 3 4	42 33 50.1 44 0 0.5 2.9 1.7	+ 0.2 — 1.5 — 0.2	+ 19.06	
7994	6	22 49 58	+ 2.7	M.		32	44 0 1.7 40 51 8.0		+ 19.13	+ 0.01
7995	6	22 50 15	+ 2.6	Gr. J. Ja. Ad.	1845 1850	6 5 4	48 58 54.0 54.1 53.2	+ 0.0 — 1.6 — 0.2	+ 19.13	
8023	4.3	22 55 26	+ 2.7	M. Ai. 2 Ad.	1855	102 1	48 58 52.1 41 34 8.7 8.6	+ 0.3	+ 19.26	— 0.03
8028	6	22 56 7	+ 2.7	M.		26	41 34 8.7 41 59 59.9		+ 19.28	+ 0.02
8032	2.3	22 56 56	+ 2.9	M. J. 2 Ad.	1857	115 5	27 19 8.4 7.8	— 0.2	+ 19.30	+ 0.15
8036	5.6	22 57 52	+ 2.7	M. J. 2	1858	49 1	27 19 8.3 49 17 10.2 49 17 8.6	— 0.2	+ 19.32	+ 0.16

B. A. C.	Mag.	α 1859.0.			Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.			Systematic Correction.	Precession.	Proper Motion.
		^h	^m	^s	^s				[°]	[']	["]			
8036	5.6	22	57	52	+ 2.7	Ad.			49	17	10.1			
8054	5.6	23	0	40	+ 2.5	M.		42	58	39	28.2		+ 19.39	— 0.02
8056	6.7	23	0	51	+ 2.7	M.		8	45	18	20.6		+ 19.39	
						Ja.	1850	3			22.2	— 0.2		
						Ad.			45	18	21.2			
8058	6	23	1	13	+ 2.7	M.		31	45	37	33.7		+ 19.40	— 0.05
8059	6	23	1	22	+ 2.7	M.		36	48	31	41.2		+ 19.40	+ 0.12
						J. 2	1857	4			41.4	— 0.2		
						Ad.			48	31	41.2			
8075	6	23	3	43	+ 2.5	M.		40	58	34	5.2		+ 19.45	— 0.02
						J. 2	1857	3			7.4	+ 0.1		
						Ad.			58	34	5.6			
8076	6	23	3	57	+ 2.8	M.		42	42	47	14.8		+ 19.46	— 0.18
						J. 2	1856	4			15.2	— 0.2		
						Ad.			42	47	14.9			
8082	5	23	6	6	+ 2.7	M.		106	48	38	10.7		+ 19.50	+ 0.08
8091	(7)	23	8	5	+ 2.9	Lal.	1795	1	27	18	23.0	— 1.5	+ 19.54	
						Ja.	1850	4			14.8	— 0.2		
						Ad.			27	18	13.5			
8097	(6)	23	8	53	+ 2.9	M.		22	27	28	47.5		+ 19.56	0.00
8099	(8)	23	9	11	+ 2.9	Pi.			27	27	33.4	— 1.2	+ 19.57	— 0.08
						T.		1			28.9	+ 0.5		
						R.	1841	1			30.2	+ 0.5		
						Ad.			27	27	28.4			
8110	6	23	10	39	+ 2.8	Gr.		6	44	23	53.1	+ 0.2	+ 19.59	
						J.	1844	4			52.6	— 1.5		
						Ja.	1850	4			52.0	— 0.2		
						Ad.			44	23	50.6			
8114	5.6	23	11	13	+ 2.8	M.		55	48	14	42.8		+ 19.60	0.00
8118	6	23	11	43	+ 2.8	M.		27	41	0	14.2		+ 19.61	— 0.02
8120	6.7	23	12	24	+ 2.8	Gr.		6	44	22	0.3	+ 0.2	+ 19.63	
						J.	1845	3			1.5	— 1.5		
						Ja.	1850	3			0.3	— 0.2		
						Ad.			44	21	59.8			
8125	6	23	12	56	+ 2.8	M.		27	47	51	8.6		+ 19.64	+ 0.06
8126	6.7	23	13	5	+ 2.8	M.		25	47	36	30.8		+ 19.64	+ 0.03
						J. 2	1857	1			32.7	— 0.2		
						Ad.			47	36	30.9			
8128	6	23	13	10	+ 2.8	M.		27	41	18	24.8		+ 19.64	+ 0.03
8135	6	23	14	4	+ 2.8	J.	1847	2	43	20	46.2	— 1.5	+ 19.66	
						Ja.	1850	4			44.7	— 0.2		
						Ad.			43	20	44.6			
8153	5?	23	16	16	+ 2.6	M.		12	59	21	38.4		+ 19.69	— 0.01
						Ja.	1850	5			39.0	— 0.2		
						Ad.			59	21	38.5			
8156	7.8	23	16	52	+ 3.0	M.		27	31	45	20.9		+ 19.70	— 0.05
						J. 2	1857	1			23.9	— 0.2		
						Ad.			31	45	21.1			
8159	6	23	17	58	+ 2.9	M.		22	31	36	38.4		+ 19.72	0.00
						J. 2	1857	4			38.6	— 0.2		
						Ai. 2	1854	5			38.8	+ 0.6		
						Ad.			31	36	38.6			
8171	6	23	20	20	+ 2.9	M.		41	42	8	10.4		+ 19.76	+ 0.03
8188	5	23	23	32	+ 2.8	Gr.		12	57	46	17.7	+ 0.1	+ 19.81	+ 0.02
						T.		5			19.4	+ 0.1		
						R.	1843	5			18.0	— 1.3		
						Ai.	1841	44			18.9	— 0.4		
						J.	1844	4	57	46	20.0	— 1.3		

B. A. C.	Mag.	α 1859.0.	Annual Variation.	Authority.	Mean Year.	No. Obs.	δ 1859.0.	Systematic Correction.	Precession.	Proper Motion.
8188	5	^h 23 ^m 23 ^s 32	^s + 2.8	Ad.			57° 46' 18.9"			
8195	6	23 24 22	+ 2.9	M.		43	38 27 43.3		+ 19.81	— 0.08
				J. 2	1859	4	43.5	— 0.2		
				Ad.			38 27 43.3			
8211	6	23 27 40	+ 3.0	M.		17	32 43 3.6		+ 19.86	+ 0.04
8224	4	23 30 40	+ 2.9	M.		139	45 41 39.4		+ 19.89	— 0.45
				J. 2	1857	1	39.5	— 0.2		
				Ad.			45 41 39.4			
8229	4	23 31 14	+ 2.9	M.		89	42 29 17.6		+ 19.90	+ 0.03
				Ai. 2	1856	5	15.3	+ 0.3		
				Ad.			42 29 17.4			
8237	4	23 33 28	+ 2.9	M.		77	43 33 14.0		+ 19.92	+ 0.01
8245	6.7	23 35 19	+ 2.9	Gr.		7	44 12 38.3	+ 0.2	+ 19.93	
				Ai.	1840	6	39.8	+ 0.0		
				J.	1846	4	40.5	— 1.5		
				Ja.	1850	4	39.4	— 0.2		
				Ad.			44 12 39.8			
8268	5	23 40 11	+ 2.9	M.		79	57 52 0.0		+ 19.98	+ 0.06
8282	6	23 42 17	+ 2.9	Br.	1755	1	58 10 51.3		+ 19.99	— 0.02
				J.	1845	4	49.0	— 1.3		
				Ja.	1850	4	48.9	— 0.2		
				Ad.			58 10 47.6			
8284	6	23 42 31	+ 3.0	M.		20	28 3 29.3		+ 19.99	+ 0.04
8324	5	23 50 35	+ 3.0	M.		37	24 21 28.4		+ 20.04	— 0.04
8326	6	23 50 59	+ 3.0	Gr.		6	49 38 58.8	— 0.1	+ 20.04	+ 0.09
				T.		4	39 5.0	+ 0.1		
				J.	1845	3	9.1	— 1.6		
				Ad.			49 39 11.0			
8338	7.8	23 53 34	+ 3.0	M.		13	61 23 32.6		+ 20.05	— 0.04
8345	6.7	23 54 32	+ 3.0	Gr.		6	41 34 56.8	+ 0.3	+ 20.05	
				Ai.	1843	29	55.7	+ 0.3		
				J.	1846	4	56.4	— 1.5		
				Ja.	1850	4	55.7	— 0.2		
				Ad.			41 34 55.2			

NOTE. — The declinations of the Radcliffe Catalogue, received since these computations were made, have already been corrected by systematic corrections very nearly the same as those given by Mädler. The results marked J. in the preceding Catalogue, from the original volumes, have not these corrections.

The Radcliffe Catalogue contains, as it seems, the results of some of the observations designated by J. 2 in the preceding list; and also, as I suppose, the results of Sub Polo observations. These latter I have generally omitted, as our stars would be affected Sub Polo by the uncertainty of refraction.

The reductions to 1845.0 in the Radcliffe Catalogue seem to contain proper motion in some cases. The method which I have employed did not admit of this in case of stars not contained in Mädler's list.

I find a discrepancy between Mädler's position of the stars 4789 and 7637, and modern observations. The latter indicate that the declinations for 1859 are as follows:—

4789 52° 30' 13".1

7637 53° 20' 1".7